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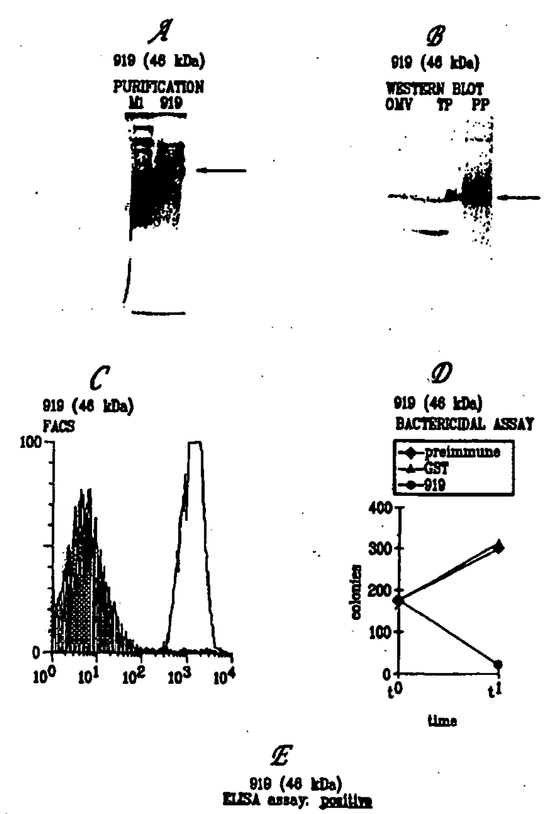
(57) Abstract

The invention provides methods of obtaining immunogenic proteins from genomic sequences including *Neisseria*, including the amino acid sequences and the corresponding nucleotide sequences, as well as the genomic sequence of *Neisseria meningitidis B*. The proteins so obtained are useful antigens for vaccines, immunogenic compositions, and/or diagnostics.



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NEISSERIA GENOMIC SEQUENCES AND METHODS OF THEIR USE

This application claims priority to provisional U.S. applications serial nos. 60/103,794, filed 9 October, 1998 and 60/132,068, filed 30 April, 1999, both of which are incorporated in full herein by reference.

This invention relates to methods of obtaining antigens and immunogens, the antigens and immunogens so obtained, and nucleic acids from the bacterial species: *Neisseria meningitidis*. In particular, it relates to genomic sequences from the bacterium; more particularly its "B" serogroup.

BACKGROUND

Neisseria meningitidis is a non-motile, gram negative diplococcus human pathogen. It colonizes the pharynx, causing meningitis and, occasionally, septicaemia in the absence of meningitis. It is closely related to *N. gonorrhoea*, although one feature that clearly differentiates meningococcus from gonococcus is the presence of a polysaccharide capsule that is present in all pathogenic meningococci.

N. meningitidis causes both endemic and epidemic disease. In the United States the attack rate is 0.6-1 per 100,000 persons per year, and it can be much greater during outbreaks. (see Lieberman *et al.* (1996) Safety and Immunogenicity of a Serogroups A/C *Neisseria meningitidis* Oligosaccharide-Protein Conjugate Vaccine in Young Children. *JAMA* 275(19):1499-1503; Schuchat *et al* (1997) Bacterial Meningitis in the United States in 1995. *N Engl J Med* 337(14):970-976). In developing countries, endemic disease rates are much higher and during epidemics incidence rates can reach 500 cases per 100,000 persons per year. Mortality is extremely high, at 10-20% in the United States, and much higher in developing countries. Following the introduction of the conjugate vaccine against *Haemophilus influenzae*, *N. meningitidis* is the major cause of bacterial meningitis at all ages in the United States (Schuchat *et al* (1997) *supra*).

Based on the organism's capsular polysaccharide, 12 serogroups of *N. meningitidis* have been identified. Group A is the pathogen most often implicated in epidemic disease in sub-Saharan Africa. Serogroups B and C are responsible for the vast majority of cases in the United States and in most developed countries. Serogroups W135 and Y are responsible for

the rest of the cases in the United States and developed countries. The meningococcal vaccine currently in use is a tetravalent polysaccharide vaccine composed of serogroups A, C, Y and W135. Although efficacious in adolescents and adults, it induces a poor immune response and short duration of protection, and cannot be used in infants (e.g., Morbidity and Mortality weekly report, Vol. 46, No. RR-5 (1997)). This is because polysaccharides are T-cell independent antigens that induce a weak immune response that cannot be boosted by repeated immunization. Following the success of the vaccination against *H. influenzae*, conjugate vaccines against serogroups A and C have been developed and are at the final stage of clinical testing (Zollinger WD "New and Improved Vaccines Against Meningococcal Disease". In: *New Generation Vaccines*, *supra*, pp. 469-488; Lieberman *et al* (1996) *supra*; Costantino *et al* (1992) Development and phase I clinical testing of a conjugate vaccine against meningococcus A (menA) and C (menC) (*Vaccine* 10:691-698)).

Meningococcus B (MenB) remains a problem, however. This serotype currently is responsible for approximately 50% of total meningitis in the United States, Europe, and South America. The polysaccharide approach cannot be used because the MenB capsular polysaccharide is a polymer of α(2-8)-linked *N*-acetyl neuraminic acid that is also present in mammalian tissue. This results in tolerance to the antigen; indeed, if an immune response were elicited, it would be anti-self, and therefore undesirable. In order to avoid induction of autoimmunity and to induce a protective immune response, the capsular polysaccharide has, for instance, been chemically modified substituting the *N*-acetyl groups with *N*-propionyl groups, leaving the specific antigenicity unaltered (Romero & Outschoorn (1994) Current status of Meningococcal group B vaccine candidates: capsular or non-capsular? *Clin Microbiol Rev* 7(4):559-575).

Alternative approaches to MenB vaccines have used complex mixtures of outer membrane proteins (OMPs), containing either the OMPs alone, or OMPs enriched in porins, or deleted of the class 4 OMPs that are believed to induce antibodies that block bactericidal activity. This approach produces vaccines that are not well characterized. They are able to protect against the homologous strain, but are not effective at large where there are many antigenic variants of the outer membrane proteins. To overcome the antigenic variability, multivalent vaccines containing up to nine different porins have been constructed (e.g., Poolman JT (1992) Development of a meningococcal vaccine. *Infect. Agents Dis.* 4:13-28).

Additional proteins to be used in outer membrane vaccines have been the opa and opc proteins, but none of these approaches have been able to overcome the antigenic variability (e.g., Ala'Aldeen & Borriello (1996) The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of killing homologous and heterologous strains. *Vaccine* 14(1):49-53).

A certain amount of sequence data is available for meningococcal and gonococcal genes and proteins (e.g., EP-A-0467714, WO96/29412), but this is by no means complete. The provision of further sequences could provide an opportunity to identify secreted or surface-exposed proteins that are presumed targets for the immune system and which are not antigenically variable or at least are more antigenically conserved than other and more variable regions. Thus, those antigenic sequences that are more highly conserved are preferred sequences. Those sequences specific to *Neisseria meningitidis* or *Neisseria gonorrhoeae* that are more highly conserved are further preferred sequences. For instance, some of the identified proteins could be components of efficacious vaccines against meningococcus B, some could be components of vaccines against all meningococcal serotypes, and others could be components of vaccines against all pathogenic *Neisseriae*. The identification of sequences from the bacterium will also facilitate the production of biological probes, particularly organism-specific probes.

It is thus an object of the invention is to provide Neisserial DNA sequences which (1) encode proteins predicted and/or shown to be antigenic or immunogenic, (2) can be used as probes or amplification primers, and (3) can be analyzed by bioinformatics.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 illustrates the products of protein expression and purification of the predicted ORF 919 as cloned and expressed in *E. coli*.

Fig. 2 illustrates the products of protein expression and purification of the predicted ORF 279 as cloned and expressed in *E. coli*.

Fig. 3 illustrates the products of protein expression and purification of the predicted ORF 576-1 as cloned and expressed in *E. coli*.

Fig. 4 illustrates the products of protein expression and purification of the predicted ORF 519-1 as cloned and expressed in *E. coli*.

Fig. 5 illustrates the products of protein expression and purification of the predicted ORF 121-1 as cloned and expressed in *E. coli.*

Fig. 6 illustrates the products of protein expression and purification of the predicted ORF 128-1 as cloned and expressed in *E. coli.*

Fig. 7 illustrates the products of protein expression and purification of the predicted ORF 206 as cloned and expressed in *E. coli.*

Fig. 8 illustrates the products of protein expression and purification of the predicted ORF 287 as cloned and expressed in *E. coli.*

Fig. 9 illustrates the products of protein expression and purification of the predicted ORF 406 as cloned and expressed in *E. coli.*

Fig. 10 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 919 as cloned and expressed in *E. coli.*

Fig. 11 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 279 as cloned and expressed in *E. coli.*

Fig. 12 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 576-1 as cloned and expressed in *E. coli.*

Fig. 13 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 519-1 as cloned and expressed in *E. coli.*

Fig. 14 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 121-1 as cloned and expressed in *E. coli.*

Fig. 15 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 128-1 as cloned and expressed in *E. coli.*

Fig. 16 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 206 as cloned and expressed in *E. coli.*

Fig. 17 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 287 as cloned and expressed in *E. coli.*

Fig. 18 illustrates the hydrophilicity plot, antigenic index and AMPHI regions of the products of protein expression the predicted ORF 406 as cloned and expressed in *E. coli.*

THE INVENTION

The invention is based on the 961 nucleotide sequences from the genome of *N. meningitidis* shown as SEQ ID NOs:1-961 of Appendix C, and the full length genome of *N. meningitidis* shown as SEQ ID NO. 1068 in Appendix D. The 961 sequences in Appendix C represent substantially the whole genome of serotype B of *N. meningitidis* (>99.98%). There is partial overlap between some of the 961 contiguous sequences ("contigs") shown in the sequences in Appendix C, which overlap was used to construct the single full length sequence shown in SEQ ID NO. 1068 in Appendix D, using the TIGR Assembler [G.S. Sutton et al., *TIGR Assembler: A New Tool for Assembling Large Shotgun Sequencing Projects*, Genome Science and Technology, 1:9-19 (1995)]. Some of the nucleotides in the contigs had been previously released. (See ftp:11ftp.tigr.org/pub/data/n_meningitidis on the world-wide web or "WWW"). The coordinates of the 2508 released sequences in the present contigs are presented in Appendix A. These data include the contig number (or i.d.) as presented in the first column; the name of the sequence as found on WWW is in the second column; with the coordinates of the contigs in the third and fourth columns, respectively. The sequences of certain MenB ORFs presented in Appendix B feature in International Patent Application filed by Chiron SpA on October 9, 1998 (PCT/IB98/01665) and January 14, 1999 (PCT/IB99/00103) respectively.

In a first aspect, the invention provides nucleic acid including one or more of the *N. meningitidis* nucleotide sequences shown in SEQ ID NOs:1-961 and 1068 in Appendices C and E. It also provides nucleic acid comprising sequences having sequence identity to the nucleotide sequence disclosed herein. Depending on the particular sequence, the degree of sequence identity is preferably greater than 50% (e.g., 60%, 70%, 80%, 90%, 95%, 99% or more). These sequences include, for instance, mutants and allelic variants. The degree of sequence identity cited herein is determined across the length of the sequence determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular) using an affine gap search with the following parameters: gap open penalty 12, gap extension penalty 1.

The invention also provides nucleic acid including a fragment of one or more of the nucleotide sequences set out herein. The fragment should comprise at least *n* consecutive nucleotides from the sequences and, depending on the particular sequence, *n* is 10 or more

(e.g., 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 30, 35, 40, 45, 50, 60, 75, 100 or more). Preferably, the fragment is unique to the genome of *N. meningitidis*, that is to say it is not present in the genome of another organism. More preferably, the fragment is unique to the genome of strain B of *N. meningitidis*. The invention also provides nucleic acid that hybridizes to those provided herein. Conditions for hybridizing are disclosed herein.

The invention also provides nucleic acid including sequences complementary to those described above (e.g., for antisense, for probes, or for amplification primers).

Nucleic acid according to the invention can, of course, be prepared in many ways (e.g., by chemical synthesis, from DNA libraries, from the organism itself, etc.) and can take various forms (e.g., single-stranded, double-stranded, vectors, probes, primers, etc.). The term "nucleic acid" includes DNA and RNA, and also their analogs, such as those containing modified backbones, and also peptide nucleic acid (PNA) etc.

It will be appreciated that, as SEQ ID NOs:1-961 represent the substantially complete genome of the organism, with partial overlap, references to SEQ ID NOs:1-961 include within their scope references to the complete genomic sequence, e.g., where two SEQ ID NOs overlap, the invention encompasses the single sequence which is formed by assembling the two overlapping sequences. Thus, for instance, a nucleotide sequence which bridges two SEQ ID NOs but is not present in its entirety in either SEQ ID NO is still within the scope of the invention. Additionally, such a sequence will be present in its entirety in the single full length sequence of SEQ ID NO. 1068.

The invention also provides vectors including nucleotide sequences of the invention (e.g., expression vectors, sequencing vectors, cloning vectors, etc.) and host cells transformed with such vectors.

According to a further aspect, the invention provides a protein including an amino acid sequence encoded within a *N. meningitidis* nucleotide sequence set out herein. It also provides proteins comprising sequences having sequence identity to those proteins. Depending on the particular sequence, the degree of sequence identity is preferably greater than 50% (e.g., 60%, 70%, 80%, 90%, 95%, 99% or more). Sequence identity is determined as above disclosed. These homologous proteins include mutants and allelic variants, encoded within the *N. meningitidis* nucleotide sequence set out herein.

The invention further provides proteins including fragments of an amino acid sequence encoded within a *N. meningitidis* nucleotide sequence set out in the sequence listing. The fragments should comprise at least *n* consecutive amino acids from the sequences and, depending on the particular sequence, *n* is 7 or more (e.g., 8, 10, 12, 14, 16, 18, 20 or more). Preferably the fragments comprise an epitope from the sequence.

The proteins of the invention can, of course, be prepared by various means (e.g., recombinant expression, purification from cell culture, chemical synthesis, *etc.*) and in various forms (e.g. native, fusions *etc.*). They are preferably prepared in substantially isolated form (*i.e.,* substantially free from other *N. meningitidis* host cell proteins).

Various tests can be used to assess the *in vivo* immunogenicity of the proteins of the invention. For example, the proteins can be expressed recombinantly or chemically synthesized and used to screen patient sera by immunoblot. A positive reaction between the protein and patient serum indicates that the patient has previously mounted an immune response to the protein in question; i.e., the protein is an immunogen. This method can also be used to identify immunodominant proteins.

The invention also provides nucleic acid encoding a protein of the invention.

In a further aspect, the invention provides a computer, a computer memory, a computer storage medium (e.g., floppy disk, fixed disk, CD-ROM, etc.), and/or a computer database containing the nucleotide sequence of nucleic acid according to the invention. Preferably, it contains one or more of the *N. meningitidis* nucleotide sequences set out herein.

This may be used in the analysis of the *N. meningitidis* nucleotide sequences set out herein. For instance, it may be used in a search to identify open reading frames (ORFs) or coding sequences within the sequences.

In a further aspect, the invention provides a method for identifying an amino acid sequence, comprising the step of searching for putative open reading frames or protein-coding sequences within a *N. meningitidis* nucleotide sequence set out herein. Similarly, the invention provides the use of a *N. meningitidis* nucleotide sequence set out herein in a search for putative open reading frames or protein-coding sequences.

Open-reading frame or protein-coding sequence analysis is generally performed on a computer using standard bioinformatic techniques. Typical algorithms or program used in the analysis include ORFFINDER (NCBI), GENMARK [Borodovsky & McIninch (1993)

Computers Chem 17:122-133], and GLIMMER [Salzberg et al. (1998) *Nucl Acids Res* 26:544-548].

A search for an open reading frame or protein-coding sequence may comprise the steps of searching a *N. meningitidis* nucleotide sequence set out herein for an initiation codon and searching the upstream sequence for an in-frame termination codon. The intervening codons represent a putative protein-coding sequence. Typically, all six possible reading frames of a sequence will be searched.

An amino acid sequence identified in this way can be expressed using any suitable system to give a protein. This protein can be used to raise antibodies which recognize epitopes within the identified amino acid sequence. These antibodies can be used to screen *N. meningitidis* to detect the presence of a protein comprising the identified amino acid sequence.

Furthermore, once an ORF or protein-coding sequence is identified, the sequence can be compared with sequence databases. Sequence analysis tools can be found at NCBI (http://www.ncbi.nlm.nih.gov) e.g., the algorithms BLAST, BLAST2, BLASTn, BLASTp, tBLASTn, BLASTx, & tBLASTx [see also Altschul *et al.* (1997) Gapped BLAST and PSI-BLAST: new generation of protein database search programs. *Nucleic Acids Research* 25:2289-3402]. Suitable databases for comparison include the nonredundant GenBank, EMBL, DDBJ and PDB sequences, and the nonredundant GenBank CDS translations, PDB, SwissProt, Spupdate and PIR sequences. This comparison may give an indication of the function of a protein.

Hydrophobic domains in an amino acid sequence can be predicted using algorithms such as those based on the statistical studies of Esposti *et al.* [Critical evaluation of the hydropathy of membrane proteins (1990) *Eur J Biochem* 190:207-219]. Hydrophobic domains represent potential transmembrane regions or hydrophobic leader sequences, which suggest that the proteins may be secreted or be surface-located. These properties are typically representative of good immunogens.

Similarly, transmembrane domains or leader sequences can be predicted using the PSORT algorithm (http://www.psort.nibb.ac.jp), and functional domains can be predicted using the MOTIFS program (GCG Wisconsin & PROSITE).

The invention also provides nucleic acid including an open reading frame or protein-coding sequence present in a *N. meningitidis* nucleotide sequence set out herein. Furthermore, the invention provides a protein including the amino acid sequence encoded by this open reading frame or protein-coding sequence.

According to a further aspect, the invention provides antibodies which bind to these proteins. These may be polyclonal or monoclonal and may be produced by any suitable means known to those skilled in the art.

The antibodies of the invention can be used in a variety of ways, e.g., for confirmation that a protein is expressed, or to confirm where a protein is expressed. Labeled antibody (e.g., fluorescent labeling for FACS) can be incubated with intact bacteria and the presence of label on the bacterial surface confirms the location of the protein, for instance.

According to a further aspect, the invention provides compositions including protein, antibody, and/or nucleic acid according to the invention. These compositions may be suitable as vaccines, as immunogenic compositions, or as diagnostic reagents.

The invention also provides nucleic acid, protein, or antibody according to the invention for use as medicaments (e.g., as vaccines) or as diagnostic reagents. It also provides the use of nucleic acid, protein, or antibody according to the invention in the manufacture of (I) a medicament for treating or preventing infection due to Neisserial bacteria (ii) a diagnostic reagent for detecting the presence of Neisserial bacteria or of antibodies raised against Neisserial bacteria. Said Neisserial bacteria may be any species or strain (such as *N. gonorrhoeae*) but are preferably *N. meningitidis*, especially strain A, strain B or strain C.

In still yet another aspect, the present invention provides for compositions including proteins, nucleic acid molecules, or antibodies. More preferable aspects of the present invention are drawn to immunogenic compositions of proteins. Further preferable aspects of the present invention contemplate pharmaceutical immunogenic compositions of proteins or vaccines and the use thereof in the manufacture of a medicament for the treatment or prevention of infection due to Neisserial bacteria, preferably infection of MenB.

The invention also provides a method of treating a patient, comprising administering to the patient a therapeutically effective amount of nucleic acid, protein, and/or antibody according to the invention.

According to further aspects, the invention provides various processes.

A process for producing proteins of the invention is provided, comprising the step of culturing a host cell according to the invention under conditions which induce protein expression. A process which may further include chemical synthesis of proteins and/or chemical synthesis (at least in part) of nucleotides.

A process for detecting polynucleotides of the invention is provided, comprising the steps of: (a) contacting a nucleic probe according to the invention with a biological sample under hybridizing conditions to form duplexes; and (b) detecting said duplexes.

A process for detecting proteins of the invention is provided, comprising the steps of: (a) contacting an antibody according to the invention with a biological sample under conditions suitable for the formation of an antibody-antigen complexes; and (b) detecting said complexes.

Another aspect of the present invention provides for a process for detecting antibodies that selectably bind to antigens or polypeptides or proteins specific to any species or strain of Neisserial bacteria and preferably to strains of *N. gonorrhoeae* but more preferably to strains of *N. meningitidis*, especially strain A, strain B or strain C, more preferably MenB, where the process comprises the steps of: (a) contacting antigen or polypeptide or protein according to the invention with a biological sample under conditions suitable for the formation of an antibody-antigen complexes; and (b) detecting said complexes.

Having now generally described the invention, the same will be more readily understood through reference to the following examples which are provided by way of illustration, and are not intended to be limiting of the present invention, unless specified.

Methodology - Summary of standard procedures and techniques.

General

This invention provides *Neisseria meningitidis* MenB nucleotide sequences, amino acid sequences encoded therein. With these disclosed sequences, nucleic acid probe assays and expression cassettes and vectors can be produced. The proteins can also be chemically synthesized. The expression vectors can be transformed into host cells to produce proteins. The purified or isolated polypeptides can be used to produce antibodies to detect MenB proteins. Also, the host cells or extracts can be utilized for biological assays to isolate

agonists or antagonists. In addition, with these sequences one can search to identify open reading frames and identify amino acid sequences. The proteins may also be used in immunogenic compositions and as vaccine components.

The practice of the present invention will employ, unless otherwise indicated, conventional techniques of molecular biology, microbiology, recombinant DNA, and immunology, which are within the skill of the art. Such techniques are explained fully in the literature e.g., Sambrook *Molecular Cloning; A Laboratory Manual, Second Edition* (1989); *DNA Cloning, Volumes I and ii* (D.N Glover ed. 1985); *Oligonucleotide Synthesis* (M.J. Gait ed, 1984); *Nucleic Acid Hybridization* (B.D. Hames & S.J. Higgins eds. 1984); *Transcription and Translation* (B.D. Hames & S.J. Higgins eds. 1984); *Animal Cell Culture* (R.I. Freshney ed. 1986); *Immobilized Cells and Enzymes* (IRL Press, 1986); B. Perbal, *A Practical Guide to Molecular Cloning* (1984); the *Methods in Enzymology* series (Academic Press, Inc.), especially volumes 154 & 155; *Gene Transfer Vectors for Mammalian Cells* (J.H. Miller and M.P. Calos eds. 1987, Cold Spring Harbor Laboratory); Mayer and Walker, eds. (1987), *Immunochemical Methods in Cell and Molecular Biology* (Academic Press, London); Scopes, (1987) *Protein Purification: Principles and Practice*, Second Edition (Springer-Verlag, N.Y.), and *Handbook of Experimental Immunology, Volumes I-IV* (D.M. Weir and C.C. Blackwell eds 1986).

Standard abbreviations for nucleotides and amino acids are used in this specification.

All publications, patents, and patent applications cited herein are incorporated in full by reference.

Expression systems

The *Neisseria* MenB nucleotide sequences can be expressed in a variety of different expression systems; for example those used with mammalian cells, plant cells, baculoviruses, bacteria, and yeast.

i. Mammalian Systems

Mammalian expression systems are known in the art. A mammalian promoter is any DNA sequence capable of binding mammalian RNA polymerase and initiating the downstream (3') transcription of a coding sequence (e.g., structural gene) into mRNA. A

promoter will have a transcription initiating region, which is usually placed proximal to the 5' end of the coding sequence, and a TATA box, usually located 25-30 base pairs (bp) upstream of the transcription initiation site. The TATA box is thought to direct RNA polymerase II to begin RNA synthesis at the correct site. A mammalian promoter will also contain an upstream promoter element, usually located within 100 to 200 bp upstream of the TATA box. An upstream promoter element determines the rate at which transcription is initiated and can act in either orientation (Sambrook et al. (1989) "Expression of Cloned Genes in Mammalian Cells." In *Molecular Cloning: A Laboratory Manual, 2nd ed.)*.

Mammalian viral genes are often highly expressed and have a broad host range; therefore sequences encoding mammalian viral genes provide particularly useful promoter sequences. Examples include the SV40 early promoter, mouse mammary tumor virus LTR promoter, adenovirus major late promoter (Ad MLP), and herpes simplex virus promoter. In addition, sequences derived from non-viral genes, such as the murine metallothionein gene, also provide useful promoter sequences. Expression may be either constitutive or regulated (inducible). Depending on the promoter selected, many promotes may be inducible using known substrates, such as the use of the mouse mammary tumor virus (MMTV) promoter with the glucocorticoid responsive element (GRE) that is induced by glucocorticoid in hormone-responsive transformed cells (see for example, U.S. Patent 5,783,681).

The presence of an enhancer element (enhancer), combined with the promoter elements described above, will usually increase expression levels. An enhancer is a regulatory DNA sequence that can stimulate transcription up to 1000-fold when linked to homologous or heterologous promoters, with synthesis beginning at the normal RNA start site. Enhancers are also active when they are placed upstream or downstream from the transcription initiation site, in either normal or flipped orientation, or at a distance of more than 1000 nucleotides from the promoter (Maniatis et al. (1987) *Science 236:*1237; Alberts et al. (1989) *Molecular Biology of the Cell*, 2nd ed.). Enhancer elements derived from viruses may be particularly useful, because they usually have a broader host range. Examples include the SV40 early gene enhancer (Dijkema et al (1985) *EMBO J. 4*:761) and the enhancer/promoters derived from the long terminal repeat (LTR) of the Rous Sarcoma Virus (Gorman et al. (1982b) *Proc. Natl. Acad. Sci. 79*:6777) and from human cytomegalovirus (Boshart et al. (1985) *Cell 41*:521). Additionally, some enhancers are regulatable and

become active only in the presence of an inducer, such as a hormone or metal ion (Sassone-Corsi and Borelli (1986) *Trends Genet. 2*:215; Maniatis et al. (1987) Science 236:1237).

A DNA molecule may be expressed intracellularly in mammalian cells. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus of the recombinant protein will always be a methionine, which is encoded by the ATG start codon. If desired, the N-terminus may be cleaved from the protein by *in vitro* incubation with cyanogen bromide.

Alternatively, foreign proteins can also be secreted from the cell into the growth media by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provides for secretion of the foreign protein in mammalian cells. Preferably, there are processing sites encoded between the leader fragment and the foreign gene that can be cleaved either *in vivo* or *in vitro*. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell. The adenovirus tripartite leader is an example of a leader sequence that provides for secretion of a foreign protein in mammalian cells.

Usually, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. The 3' terminus of the mature mRNA is formed by site-specific post-transcriptional cleavage and polyadenylation (Birnstiel et al. (1985) *Cell 41*:349; Proudfoot and Whitelaw (1988) "Termination and 3' end processing of eukaryotic RNA. In *Transcription and splicing* (ed. B.D. Hames and D.M. Glover); Proudfoot (1989) *Trends Biochem. Sci. 14*:105). These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Examples of transcription terminator/polyadenylation signals include those derived from SV40 (Sambrook et al (1989) "Expression of cloned genes in cultured mammalian cells." In *Molecular Cloning: A Laboratory Manual*).

Usually, the above-described components, comprising a promoter, polyadenylation signal, and transcription termination sequence are put together into expression constructs. Enhancers, introns with functional splice donor and acceptor sites, and leader sequences may also be included in an expression construct, if desired. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (e.g., plasmids) capable of

stable maintenance in a host, such as mammalian cells or bacteria. Mammalian replication systems include those derived from animal viruses, which require trans-acting factors to replicate. For example, plasmids containing the replication systems of papovaviruses, such as SV40 (Gluzman (1981) *Cell 23*:175) or polyomavirus, replicate to extremely high copy number in the presence of the appropriate viral T antigen. Additional examples of mammalian replicons include those derived from bovine papillomavirus and Epstein-Barr virus. Additionally, the replicon may have two replication systems, thus allowing it to be maintained, for example, in mammalian cells for expression and in a prokaryotic host for cloning and amplification. Examples of such mammalian-bacteria shuttle vectors include pMT2 (Kaufman et al. (1989) *Mol. Cell. Biol. 9*:946) and pHEBO (Shimizu et al. (1986) *Mol. Cell. Biol. 6*:1074).

The transformation procedure used depends upon the host to be transformed. Methods for introduction of heterologous polynucleotides into mammalian cells are known in the art and include dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

Mammalian cell lines available as hosts for expression are known in the art and include many immortalized cell lines available from the American Type Culture Collection (ATCC), including but not limited to, Chinese hamster ovary (CHO) cells, HeLa cells, baby hamster kidney (BHK) cells, monkey kidney cells (COS), human hepatocellular carcinoma cells (e.g., Hep G2), and a number of other cell lines.

ii. Plant Cellular Expression Systems

There are many plant cell culture and whole plant genetic expression systems known in the art. Exemplary plant cellular genetic expression systems include those described in patents, such as: U.S. 5,693,506; US 5,659,122; and US 5,608,143. Additional examples of genetic expression in plant cell culture has been described by Zenk, *Phytochemistry* 30:3861-3863 (1991). Descriptions of plant protein signal peptides may be found in addition to the references described above in Vaulcombe et al., *Mol. Gen. Genet.* 209:33-40 (1987); Chandler et al., *Plant Molecular Biology* 3:407-418 (1984); Rogers, *J. Biol. Chem.* 260:3731-3738 (1985); Rothstein et al., *Gene* 55:353-356 (1987); Whittier et al., Nucleic Acids

Research 15:2515-2535 (1987); Wirsel et al., *Molecular Microbiology* 3:3-14 (1989); Yu et al., *Gene* 122:247-253 (1992). A description of the regulation of plant gene expression by the phytohormone, gibberellic acid and secreted enzymes induced by gibberellic acid can be found in R.L. Jones and J. MacMillin, Gibberellins: in: *Advanced Plant Physiology*,. Malcolm B. Wilkins, ed., 1984 Pitman Publishing Limited, London, pp. 21-52. References that describe other metabolically-regulated genes: Sheen, *Plant Cell*, 2:1027-1038(1990); Maas et al., *EMBO J.* 9:3447-3452 (1990); Benkel and Hickey, *Proc. Natl. Acad. Sci.* 84:1337-1339 (1987)

Typically, using techniques known in the art, a desired polynucleotide sequence is inserted into an expression cassette comprising genetic regulatory elements designed for operation in plants. The expression cassette is inserted into a desired expression vector with companion sequences upstream and downstream from the expression cassette suitable for expression in a plant host. The companion sequences will be of plasmid or viral origin and provide necessary characteristics to the vector to permit the vectors to move DNA from an original cloning host, such as bacteria, to the desired plant host. The basic bacterial/plant vector construct will preferably provide a broad host range prokaryote replication origin; a prokaryote selectable marker; and, for Agrobacterium transformations, T DNA sequences for Agrobacterium-mediated transfer to plant chromosomes. Where the heterologous gene is not readily amenable to detection, the construct will preferably also have a selectable marker gene suitable for determining if a plant cell has been transformed. A general review of suitable markers, for example for the members of the grass family, is found in Wilmink and Dons, 1993, *Plant Mol. Biol. Reptr*, 11(2):165-185.

Sequences suitable for permitting integration of the heterologous sequence into the plant genome are also recommended. These might include transposon sequences and the like for homologous recombination as well as Ti sequences which permit random insertion of a heterologous expression cassette into a plant genome. Suitable prokaryote selectable markers include resistance toward antibiotics such as ampicillin or tetracycline. Other DNA sequences encoding additional functions may also be present in the vector, as is known in the art.

The nucleic acid molecules of the subject invention may be included into an expression cassette for expression of the protein(s) of interest. Usually, there will be only

one expression cassette, although two or more are feasible. The recombinant expression cassette will contain in addition to the heterologous protein encoding sequence the following elements, a promoter region, plant 5' untranslated sequences, initiation codon depending upon whether or not the structural gene comes equipped with one, and a transcription and translation termination sequence. Unique restriction enzyme sites at the 5' and 3' ends of the cassette allow for easy insertion into a pre-existing vector.

A heterologous coding sequence may be for any protein relating to the present invention. The sequence encoding the protein of interest will encode a signal peptide which allows processing and translocation of the protein, as appropriate, and will usually lack any sequence which might result in the binding of the desired protein of the invention to a membrane. Since, for the most part, the transcriptional initiation region will be for a gene which is expressed and translocated during germination, by employing the signal peptide which provides for translocation, one may also provide for translocation of the protein of interest. In this way, the protein(s) of interest will be translocated from the cells in which they are expressed and may be efficiently harvested. Typically secretion in seeds are across the aleurone or scutellar epithelium layer into the endosperm of the seed. While it is not required that the protein be secreted from the cells in which the protein is produced, this facilitates the isolation and purification of the recombinant protein.

Since the ultimate expression of the desired gene product will be in a eucaryotic cell it is desirable to determine whether any portion of the cloned gene contains sequences which will be processed out as introns by the host's splicosome machinery. If so, site-directed mutagenesis of the "intron" region may be conducted to prevent losing a portion of the genetic message as a false intron code, Reed and Maniatis, *Cell* 41:95-105, 1985.

The vector can be microinjected directly into plant cells by use of micropipettes to mechanically transfer the recombinant DNA. Crossway, *Mol. Gen. Genet*, 202:179-185, 1985. The genetic material may also be transferred into the plant cell by using polyethylene glycol, Krens, et al., *Nature*, 296, 72-74, 1982. Another method of introduction of nucleic acid segments is high velocity ballistic penetration by small particles with the nucleic acid either within the matrix of small beads or particles, or on the surface, Klein, et al., *Nature*, 327, 70-73, 1987 and Knudsen and Muller, 1991, *Planta*, 185:330-336 teaching particle bombardment of barley endosperm to create transgenic barley. Yet another method of

introduction would be fusion of protoplasts with other entities, either minicells, cells, lysosomes or other fusible lipid-surfaced bodies, Fraley, et al., *Proc. Natl. Acad. Sci. USA*, 79, 1859-1863, 1982.

The vector may also be introduced into the plant cells by electroporation. (Fromm et al., *Proc. Natl Acad. Sci. USA* 82:5824, 1985). In this technique, plant protoplasts are electroporated in the presence of plasmids containing the gene construct. Electrical impulses of high field strength reversibly permeabilize biomembranes allowing the introduction of the plasmids. Electroporated plant protoplasts reform the cell wall, divide, and form plant callus.

All plants from which protoplasts can be isolated and cultured to give whole regenerated plants can be transformed by the present invention so that whole plants are recovered which contain the transferred gene. It is known that practically all plants can be regenerated from cultured cells or tissues, including but not limited to all major species of sugarcane, sugar beet, cotton, fruit and other trees, legumes and vegetables. Some suitable plants include, for example, species from the genera *Fragaria*, *Lotus*, *Medicago*, *Onobrychis*, *Trifolium*, *Trigonella*, *Vigna*, *Citrus*, *Linum*, *Geranium*, *Manihot*, *Daucus*, *Arabidopsis*, *Brassica*, *Raphanus*, *Sinapis*, *Atropa*, *Capsicum*, *Datura*, *Hyoscyamus*, *Lycopersion*, *Nicotiana*, *Solanum*, *Petunia*, *Digitalis*, *Majorana*, *Cichorium*, *Helianthus*, *Lactuca*, *Bromus*, *Asparagus*, *Antirrhinum*, *Hererocallis*, *Nemesia*, *Pelargonium*, *Panicum*, *Pennisetum*, *Ranunculus*, *Senecio*, *Salpiglossis*, *Cucumis*, *Browaalia*, *Glycine*, *Lolium*, *Zea*, *Triticum*, *Sorghum*, and *Datura*.

Means for regeneration vary from species to species of plants, but generally a suspension of transformed protoplasts containing copies of the heterologous gene is first provided. Callus tissue is formed and shoots may be induced from callus and subsequently rooted. Alternatively, embryo formation can be induced from the protoplast suspension. These embryos germinate as natural embryos to form plants. The culture media will generally contain various amino acids and hormones, such as auxin and cytokinins. It is also advantageous to add glutamic acid and proline to the medium, especially for such species as corn and alfalfa. Shoots and roots normally develop simultaneously. Efficient regeneration will depend on the medium, on the genotype, and on the history of the culture. If these three variables are controlled, then regeneration is fully reproducible and repeatable.

In some plant cell culture systems, the desired protein of the invention may be excreted or alternatively, the protein may be extracted from the whole plant. Where the desired protein of the invention is secreted into the medium, it may be collected. Alternatively, the embryos and embryoless-half seeds or other plant tissue may be mechanically disrupted to release any secreted protein between cells and tissues. The mixture may be suspended in a buffer solution to retrieve soluble proteins. Conventional protein isolation and purification methods will be then used to purify the recombinant protein. Parameters of time, temperature pH, oxygen, and volumes will be adjusted through routine methods to optimize expression and recovery of heterologous protein.

iii. Baculovirus Systems

The polynucleotide encoding the protein can also be inserted into a suitable insect expression vector, and is operably linked to the control elements within that vector. Vector construction employs techniques which are known in the art. Generally, the components of the expression system include a transfer vector, usually a bacterial plasmid, which contains both a fragment of the baculovirus genome, and a convenient restriction site for insertion of the heterologous gene or genes to be expressed; a wild type baculovirus with a sequence homologous to the baculovirus-specific fragment in the transfer vector (this allows for the homologous recombination of the heterologous gene in to the baculovirus genome); and appropriate insect host cells and growth media.

After inserting the DNA sequence encoding the protein into the transfer vector, the vector and the wild type viral genome are transfected into an insect host cell where the vector and viral genome are allowed to recombine. The packaged recombinant virus is expressed and recombinant plaques are identified and purified. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, *inter alia*, Invitrogen, San Diego CA ("MaxBac" kit). These techniques are generally known to those skilled in the art and fully described in Summers and Smith, *Texas Agricultural Experiment Station Bulletin No. 1555* (1987) (hereinafter "Summers and Smith").

Prior to inserting the DNA sequence encoding the protein into the baculovirus genome, the above described components, comprising a promoter, leader (if desired), coding sequence of interest, and transcription termination sequence, are usually assembled into an

intermediate transplacement construct (transfer vector). This construct may contain a single gene and operably linked regulatory elements; multiple genes, each with its owned set of operably linked regulatory elements; or multiple genes, regulated by the same set of regulatory elements. Intermediate transplacement constructs are often maintained in a replicon, such as an extrachromosomal element (e.g., plasmids) capable of stable maintenance in a host, such as a bacterium. The replicon will have a replication system, thus allowing it to be maintained in a suitable host for cloning and amplification.

Currently, the most commonly used transfer vector for introducing foreign genes into AcNPV is pAc373. Many other vectors, known to those of skill in the art, have also been designed. These include, for example, pVL985 (which alters the polyhedrin start codon from ATG to ATT, and which introduces a BamHI cloning site 32 basepairs downstream from the ATT; see Luckow and Summers, *Virology* (1989) *17*:31.

The plasmid usually also contains the polyhedrin polyadenylation signal (Miller et al. (1988) *Ann. Rev. Microbiol.*, *42*:177) and a prokaryotic ampicillin-resistance (*amp*) gene and origin of replication for selection and propagation in *E. coli.*

Baculovirus transfer vectors usually contain a baculovirus promoter. A baculovirus promoter is any DNA sequence capable of binding a baculovirus RNA polymerase and initiating the downstream (5' to 3') transcription of a coding sequence (e.g., structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site and a transcription initiation site. A baculovirus transfer vector may also have a second domain called an enhancer, which, if present, is usually distal to the structural gene. Expression may be either regulated or constitutive.

Structural genes, abundantly transcribed at late times in a viral infection cycle, provide particularly useful promoter sequences. Examples include sequences derived from the gene encoding the viral polyhedron protein, Friesen et al., (1986) "The Regulation of Baculovirus Gene Expression," in: *The Molecular Biology of Baculoviruses* (ed. Walter Doerfler); EPO Publ. Nos. 127 839 and 155 476; and the gene encoding the p10 protein, Vlak et al., (1988), *J. Gen. Virol.* *69*:765.

DNA encoding suitable signal sequences can be derived from genes for secreted insect or baculovirus proteins, such as the baculovirus polyhedrin gene (Carbonell et al.

(1988) *Gene*, *73*:409). Alternatively, since the signals for mammalian cell posttranslational modifications (such as signal peptide cleavage, proteolytic cleavage, and phosphorylation) appear to be recognized by insect cells, and the signals required for secretion and nuclear accumulation also appear to be conserved between the invertebrate cells and vertebrate cells, leaders of non-insect origin, such as those derived from genes encoding human (alpha) α-interferon, Maeda et al., (1985), *Nature 315*:592; human gastrin-releasing peptide, Lebacq-Verheyden et al., (1988), *Molec. Cell. Biol. 8*:3129; human IL-2, Smith et al., (1985) *Proc. Nat'l Acad. Sci. USA*, *82*:8404; mouse IL-3, (Miyajima et al., (1987) *Gene 58*:273; and human glucocerebrosidase, Martin et al. (1988) *DNA*, *7*:99, can also be used to provide for secretion in insects.

A recombinant polypeptide or polyprotein may be expressed intracellularly or, if it is expressed with the proper regulatory sequences, it can be secreted. Good intracellular expression of nonfused foreign proteins usually requires heterologous genes that ideally have a short leader sequence containing suitable translation initiation signals preceding an ATG start signal. If desired, methionine at the N-terminus may be cleaved from the mature protein by *in vitro* incubation with cyanogen bromide.

Alternatively, recombinant polyproteins or proteins which are not naturally secreted can be secreted from the insect cell by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provides for secretion of the foreign protein in insects. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the translocation of the protein into the endoplasmic reticulum.

After insertion of the DNA sequence and/or the gene encoding the expression product precursor of the protein, an insect cell host is co-transformed with the heterologous DNA of the transfer vector and the genomic DNA of wild type baculovirus -- usually by co-transfection. The promoter and transcription termination sequence of the construct will usually comprise a 2-5kb section of the baculovirus genome. Methods for introducing heterologous DNA into the desired site in the baculovirus virus are known in the art. (See Summers and Smith *supra*; Ju et al. (1987); Smith et al., *Mol. Cell. Biol.* (1983) *3*:2156; and Luckow and Summers (1989)). For example, the insertion can be into a gene such as the polyhedrin gene, by homologous double crossover recombination; insertion can also be into a

restriction enzyme site engineered into the desired baculovirus gene. Miller et al., (1989), *Bioessays 4*:91. The DNA sequence, when cloned in place of the polyhedrin gene in the expression vector, is flanked both 5' and 3' by polyhedrin-specific sequences and is positioned downstream of the polyhedrin promoter.

The newly formed baculovirus expression vector is subsequently packaged into an infectious recombinant baculovirus. Homologous recombination occurs at low frequency (between about 1% and about 5%); thus, the majority of the virus produced after cotransfection is still wild-type virus. Therefore, a method is necessary to identify recombinant viruses. An advantage of the expression system is a visual screen allowing recombinant viruses to be distinguished. The polyhedrin protein, which is produced by the native virus, is produced at very high levels in the nuclei of infected cells at late times after viral infection. Accumulated polyhedrin protein forms occlusion bodies that also contain embedded particles. These occlusion bodies, up to 15 μm in size, are highly refractile, giving them a bright shiny appearance that is readily visualized under the light microscope. Cells infected with recombinant viruses lack occlusion bodies. To distinguish recombinant virus from wild-type virus, the transfection supernatant is plaqued onto a monolayer of insect cells by techniques known to those skilled in the art. Namely, the plaques are screened under the light microscope for the presence (indicative of wild-type virus) or absence (indicative of recombinant virus) of occlusion bodies. *Current Protocols in Microbiology* Vol. 2 (Ausubel et al. eds) at 16.8 (Supp. 10, 1990); Summers and Smith, *supra*; Miller et al. (1989).

Recombinant baculovirus expression vectors have been developed for infection into several insect cells. For example, recombinant baculoviruses have been developed for, *inter alia*: *Aedes aegypti* , *Autographa californica*, *Bombyx mori*, *Drosophila melanogaster*, *Spodoptera frugiperda*, and *Trichoplusia ni* (PCT Pub. No. WO 89/046699; Carbonell et al., (1985) *J. Virol. 56*:153; Wright (1986) *Nature 321*:718; Smith et al., (1983) *Mol. Cell. Biol. 3*:2156; and see generally, Fraser, *et al.* (1989) *In Vitro Cell. Dev. Biol. 25*:225).

Cells and cell culture media are commercially available for both direct and fusion expression of heterologous polypeptides in a baculovirus/expression system; cell culture technology is generally known to those skilled in the art. *See,* e.g., Summers and Smith *supra.*

The modified insect cells may then be grown in an appropriate nutrient medium, which allows for stable maintenance of the plasmid(s) present in the modified insect host. Where the expression product gene is under inducible control, the host may be grown to high density, and expression induced. Alternatively, where expression is constitutive, the product will be continuously expressed into the medium and the nutrient medium must be continuously circulated, while removing the product of interest and augmenting depleted nutrients. The product may be purified by such techniques as chromatography, e.g., HPLC, affinity chromatography, ion exchange chromatography, etc.; electrophoresis; density gradient centrifugation; solvent extraction, or the like. As appropriate, the product may be further purified, as required, so as to remove substantially any insect proteins which are also secreted in the medium or result from lysis of insect cells, so as to provide a product which is at least substantially free of host debris, e.g., proteins, lipids and polysaccharides.

In order to obtain protein expression, recombinant host cells derived from the transformants are incubated under conditions which allow expression of the recombinant protein encoding sequence. These conditions will vary, dependent upon the host cell selected. However, the conditions are readily ascertainable to those of ordinary skill in the art, based upon what is known in the art.

iv. Bacterial Systems

Bacterial expression techniques are known in the art. A bacterial promoter is any DNA sequence capable of binding bacterial RNA polymerase and initiating the downstream (3') transcription of a coding sequence (e.g. structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site and a transcription initiation site. A bacterial promoter may also have a second domain called an operator, that may overlap an adjacent RNA polymerase binding site at which RNA synthesis begins. The operator permits negative regulated (inducible) transcription, as a gene repressor protein may bind the operator and thereby inhibit transcription of a specific gene. Constitutive expression may occur in the absence of negative regulatory elements, such as the operator. In addition, positive regulation may be achieved by a gene activator protein binding sequence, which, if present is usually proximal (5') to the

RNA polymerase binding sequence. An example of a gene activator protein is the catabolite activator protein (CAP), which helps initiate transcription of the lac operon in Escherichia coli (*E. coli*) (Raibaud *et al.* (1984) *Annu. Rev. Genet. 18*:173). Regulated expression may therefore be either positive or negative, thereby either enhancing or reducing transcription.

Sequences encoding metabolic pathway enzymes provide particularly useful promoter sequences. Examples include promoter sequences derived from sugar metabolizing enzymes, such as galactose, lactose (*lac*) (Chang *et al.* (1977) *Nature 198*:1056), and maltose. Additional examples include promoter sequences derived from biosynthetic enzymes such as tryptophan (*trp*) (Goeddel *et al.* (1980) *Nuc. Acids Res. 8*:4057; Yelverton *et al.* (1981) *Nucl. Acids Res. 9*:731; U.S. Patent 4,738,921; EPO Publ. Nos. 036 776 and 121 775). The beta-lactamase (*bla*) promoter system (Weissmann (1981) "The cloning of interferon and other mistakes." In *Interferon 3* (ed. I. Gresser)), bacteriophage lambda PL (Shimatake *et al.* (1981) *Nature 292*:128) and T5 (U.S. Patent 4,689,406) promoter systems also provide useful promoter sequences.

In addition, synthetic promoters which do not occur in nature also function as bacterial promoters. For example, transcription activation sequences of one bacterial or bacteriophage promoter may be joined with the operon sequences of another bacterial or bacteriophage promoter, creating a synthetic hybrid promoter (U.S. Patent 4,551,433). For example, the *tac* promoter is a hybrid *trp-lac* promoter comprised of both *trp* promoter and *lac* operon sequences that is regulated by the *lac* repressor (Amann *et al.* (1983) *Gene 25*:167; de Boer *et al.* (1983) *Proc. Natl. Acad. Sci. 80*:21). Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. A naturally occurring promoter of non-bacterial origin can also be coupled with a compatible RNA polymerase to produce high levels of expression of some genes in prokaryotes. The bacteriophage T7 RNA polymerase/promoter system is an example of a coupled promoter system (Studier *et al.* (1986) *J. Mol. Biol. 189*:113; Tabor *et al.* (1985) *Proc Natl. Acad. Sci. 82*:1074). In addition, a hybrid promoter can also be comprised of a bacteriophage promoter and an *E. coli* operator region (EPO Publ. No. 267 851).

In addition to a functioning promoter sequence, an efficient ribosome binding site is also useful for the expression of foreign genes in prokaryotes. In *E. coli*, the ribosome

binding site is called the Shine-Dalgarno (SD) sequence and includes an initiation codon (ATG) and a sequence 3-9 nucleotides in length located 3-11 nucleotides upstream of the initiation codon (Shine *et al.* (1975) *Nature 254*:34). The SD sequence is thought to promote binding of mRNA to the ribosome by the pairing of bases between the SD sequence and the 3' end of *E. coli* 16S rRNA (Steitz *et al.* (1979) "Genetic signals and nucleotide sequences in messenger RNA." In *Biological Regulation and Development: Gene Expression* (ed. R.F. Goldberger)). To express eukaryotic genes and prokaryotic genes with weak ribosome-binding site, it is often necessary to optimize the distance between the SD sequence and the ATG of the eukaryotic gene (Sambrook *et al.* (1989) "Expression of cloned genes in Escherichia coli." In *Molecular Cloning: A Laboratory Manual*).

A DNA molecule may be expressed intracellularly. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus will always be a methionine, which is encoded by the ATG start codon. If desired, methionine at the N-terminus may be cleaved from the protein by *in vitro* incubation with cyanogen bromide or by either *in vivo* or *in vitro* incubation with a bacterial methionine N-terminal peptidase (EPO Publ. No. 219 237).

Fusion proteins provide an alternative to direct expression. Usually, a DNA sequence encoding the N-terminal portion of an endogenous bacterial protein, or other stable protein, is fused to the 5' end of heterologous coding sequences. Upon expression, this construct will provide a fusion of the two amino acid sequences. For example, the bacteriophage lambda cell gene can be linked at the 5' terminus of a foreign gene and expressed in bacteria. The resulting fusion protein preferably retains a site for a processing enzyme (factor Xa) to cleave the bacteriophage protein from the foreign gene (Nagai *et al.* (1984) *Nature 309*:810). Fusion proteins can also be made with sequences from the *lacZ* (Jia *et al.* (1987) *Gene 60*:197), *trpE* (Allen et al. (1987) J. Biotechnol. 5:93; Makoff *et al.* (1989) *J. Gen. Microbiol. 135*:11), and *Chey* (EPO Publ. No. 324 647) genes. The DNA sequence at the junction of the two amino acid sequences may or may not encode a cleavable site. Another example is a ubiquitin fusion protein. Such a fusion protein is made with the ubiquitin region that preferably retains a site for a processing enzyme (e.g. ubiquitin specific processing-protease) to cleave the ubiquitin from the foreign protein. Through this method, native foreign protein can be isolated (Miller *et al.* (1989) *Bio/Technology 7*:698).

Alternatively, foreign proteins can also be secreted from the cell by creating chimeric DNA molecules that encode a fusion protein comprised of a signal peptide sequence fragment that provides for secretion of the foreign protein in bacteria (U.S. Patent 4,336,336). The signal sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). Preferably there are processing sites, which can be cleaved either *in vivo* or *in vitro* encoded between the signal peptide fragment and the foreign gene.

DNA encoding suitable signal sequences can be derived from genes for secreted bacterial proteins, such as the *E. coli* outer membrane protein gene (*ompA*) (Masui *et al.* (1983), in: *Experimental Manipulation of Gene Expression*; Ghrayeb *et al.* (1984) *EMBO J.* *3*:2437) and the *E. coli* alkaline phosphatase signal sequence (*phoA*) (Oka *et al.* (1985) *Proc. Natl. Acad. Sci.* *82*:7212). As an additional example, the signal sequence of the alpha-amylase gene from various Bacillus strains can be used to secrete heterologous proteins from *B. subtilis* (Palva *et al.* (1982) *Proc. Natl. Acad. Sci. USA* *79*:5582; EPO Publ. No. 244 042).

Usually, transcription termination sequences recognized by bacteria are regulatory regions located 3' to the translation stop codon, and thus together with the promoter flank the coding sequence. These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Transcription termination sequences frequently include DNA sequences of about 50 nucleotides capable of forming stem loop structures that aid in terminating transcription. Examples include transcription termination sequences derived from genes with strong promoters, such as the *trp* gene in *E. coli* as well as other biosynthetic genes.

Usually, the above described components, comprising a promoter, signal sequence (if desired), coding sequence of interest, and transcription termination sequence, are put together into expression constructs. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (e.g., plasmids) capable of stable maintenance in a host, such as bacteria. The replicon will have a replication system, thus allowing it to be maintained in a prokaryotic host either for expression or for cloning and amplification. In addition, a replicon may be either a high or low copy number plasmid. A high copy number plasmid will

generally have a copy number ranging from about 5 to about 200, and usually about 10 to about 150. A host containing a high copy number plasmid will preferably contain at least about 10, and more preferably at least about 20 plasmids. Either a high or low copy number vector may be selected, depending upon the effect of the vector and the foreign protein on the host.

Alternatively, the expression constructs can be integrated into the bacterial genome with an integrating vector. Integrating vectors usually contain at least one sequence homologous to the bacterial chromosome that allows the vector to integrate. Integrations appear to result from recombinations between homologous DNA in the vector and the bacterial chromosome. For example, integrating vectors constructed with DNA from various Bacillus strains integrate into the Bacillus chromosome (EPO Publ. No. 127 328). Integrating vectors may also be comprised of bacteriophage or transposon sequences.

Usually, extrachromosomal and integrating expression constructs may contain selectable markers to allow for the selection of bacterial strains that have been transformed. Selectable markers can be expressed in the bacterial host and may include genes which render bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin (neomycin), and tetracycline (Davies *et al.* (1978) *Annu. Rev. Microbiol. 32*:469). Selectable markers may also include biosynthetic genes, such as those in the histidine, tryptophan, and leucine biosynthetic pathways.

Alternatively, some of the above described components can be put together in transformation vectors. Transformation vectors are usually comprised of a selectable market that is either maintained in a replicon or developed into an integrating vector, as described above.

Expression and transformation vectors, either extra-chromosomal replicons or integrating vectors, have been developed for transformation into many bacteria. For example, expression vectors have been developed for, *inter alia*, the following bacteria: Bacillus subtilis (Palva *et al.* (1982) *Proc. Natl. Acad. Sci. USA 79*:5582; EPO Publ. Nos. 036 259 and 063 953; PCT Publ. No. WO 84/04541), Escherichia coli (Shimatake *et al.* (1981) *Nature 292*:128; Amann *et al.* (1985) *Gene 40*:183; Studier *et al.* (1986) *J. Mol. Biol. 189*:113; EPO Publ. Nos. 036 776, 136 829 and 136 907), Streptococcus cremoris (Powell *et al.* (1988)

Appl. Environ. Microbiol. 54:655); Streptococcus lividans (Powell *et al.* (1988) *Appl. Environ. Microbiol. 54*:655), Streptomyces lividans (U.S. Patent 4,745,056).

Methods of introducing exogenous DNA into bacterial hosts are well-known in the art, and usually include either the transformation of bacteria treated with $CaCl_2$ or other agents, such as divalent cations and DMSO. DNA can also be introduced into bacterial cells by electroporation. Transformation procedures usually vary with the bacterial species to be transformed. (See e.g., use of *Bacillus*: Masson *et al.* (1989) *FEMS Microbiol. Lett. 60*:273; Palva *et al.* (1982) *Proc. Natl. Acad. Sci. USA 79*:5582; EPO Publ. Nos. 036 259 and 063 953; PCT Publ. No. WO 84/04541; use of *Campylobacter*: Miller *et al.* (1988) *Proc. Natl. Acad. Sci. 85*:856; and Wang *et al.* (1990) *J. Bacteriol. 172*:949; use of *Escherichia coli:* Cohen *et al.* (1973) *Proc. Natl. Acad. Sci. 69*:2110; Dower *et al.* (1988) *Nucleic Acids Res. 16*:6127; Kushner (1978) "An improved method for transformation of *Escherichia coli* with ColE1-derived plasmids. In *Genetic Engineering: Proceedings of the International Symposium on Genetic Engineering* (eds. H.W. Boyer and S. Nicosia); Mandel *et al.* (1970) *J. Mol. Biol. 53*:159; Taketo (1988) *Biochim. Biophys. Acta 949*:318; use of *Lactobacillus*: Chassy *et al.* (1987) *FEMS Microbiol. Lett. 44*:173; use of *Pseudomonas*: Fiedler *et al.* (1988) *Anal. Biochem 170*:38; use of *Staphylococcus*: Augustin *et al.* (1990) *FEMS Microbiol. Lett. 66*:203; use of *Streptococcus*: Barany *et al.* (1980) *J. Bacteriol. 144*:698; Harlander (1987) "Transformation of Streptococcus lactis by electroporation, in: *Streptococcal Genetics* (ed. J. Ferretti and R. Curtiss III); Perry *et al.* (1981) *Infect. Immun. 32*:1295; Powell *et al.* (1988) *Appl. Environ. Microbiol. 54*:655; Somkuti *et al.* (1987) *Proc. 4th Evr. Cong. Biotechnology 1*:412.

v. Yeast Expression

Yeast expression systems are also known to one of ordinary skill in the art. A yeast promoter is any DNA sequence capable of binding yeast RNA polymerase and initiating the downstream (3') transcription of a coding sequence (e.g. structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site (the "TATA Box") and a transcription initiation site. A yeast promoter may also have a second domain called an upstream activator sequence (UAS),

which, if present, is usually distal to the structural gene. The UAS permits regulated (inducible) expression. Constitutive expression occurs in the absence of a UAS. Regulated expression may be either positive or negative, thereby either enhancing or reducing transcription.

Yeast is a fermenting organism with an active metabolic pathway, therefore sequences encoding enzymes in the metabolic pathway provide particularly useful promoter sequences. Examples include alcohol dehydrogenase (ADH) (EPO Publ. No. 284 044), enolase, glucokinase, glucose-6-phosphate isomerase, glyceraldehyde-3-phosphate-dehydrogenase (GAP or GAPDH), hexokinase, phosphofructokinase, 3-phosphoglycerate mutase, and pyruvate kinase (PyK) (EPO Publ. No. 329 203). The yeast *PHO5* gene, encoding acid phosphatase, also provides useful promoter sequences (Myanohara *et al.* (1983) *Proc. Natl. Acad. Sci. USA 80*:1).

In addition, synthetic promoters which do not occur in nature also function as yeast promoters. For example, UAS sequences of one yeast promoter may be joined with the transcription activation region of another yeast promoter, creating a synthetic hybrid promoter. Examples of such hybrid promoters include the ADH regulatory sequence linked to the GAP transcription activation region (U.S. Patent Nos. 4,876,197 and 4,880,734). Other examples of hybrid promoters include promoters which consist of the regulatory sequences of either the *ADH2*, *GAL4*, *GAL10*, OR *PHO5* genes, combined with the transcriptional activation region of a glycolytic enzyme gene such as GAP or PyK (EPO Publ. No. 164 556). Furthermore, a yeast promoter can include naturally occurring promoters of non-yeast origin that have the ability to bind yeast RNA polymerase and initiate transcription. Examples of such promoters include, *inter alia*, (Cohen *et al.* (1980) *Proc. Natl. Acad. Sci. USA 77*:1078; Henikoff *et al.* (1981) *Nature 283*:835; Hollenberg *et al.* (1981) *Curr. Topics Microbiol. Immunol. 96*:119; Hollenberg *et al.* (1979) "The Expression of Bacterial Antibiotic Resistance Genes in the Yeast Saccharomyces cerevisiae," in: *Plasmids of Medical, Environmental and Commercial Importance* (eds. K.N. Timmis and A. Puhler); Mercerau-Puigalon *et al.* (1980) *Gene 11*:163; Panthier *et al.* (1980) *Curr. Genet. 2*:109;).

A DNA molecule may be expressed intracellularly in yeast. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus of the recombinant protein will always be a methionine, which is encoded by the

ATG start codon. If desired, methionine at the N-terminus may be cleaved from the protein by *in vitro* incubation with cyanogen bromide.

Fusion proteins provide an alternative for yeast expression systems, as well as in mammalian, plant, baculovirus, and bacterial expression systems. Usually, a DNA sequence encoding the N-terminal portion of an endogenous yeast protein, or other stable protein, is fused to the 5' end of heterologous coding sequences. Upon expression, this construct will provide a fusion of the two amino acid sequences. For example, the yeast or human superoxide dismutase (SOD) gene, can be linked at the 5' terminus of a foreign gene and expressed in yeast. The DNA sequence at the junction of the two amino acid sequences may or may not encode a cleavable site. See e.g., EPO Publ. No. 196056. Another example is a ubiquitin fusion protein. Such a fusion protein is made with the ubiquitin region that preferably retains a site for a processing enzyme (e.g. ubiquitin-specific processing protease) to cleave the ubiquitin from the foreign protein. Through this method, therefore, native foreign protein can be isolated (e.g., WO88/024066).

Alternatively, foreign proteins can also be secreted from the cell into the growth media by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provide for secretion in yeast of the foreign protein. Preferably, there are processing sites encoded between the leader fragment and the foreign gene that can be cleaved either *in vivo* or *in vitro*. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell.

DNA encoding suitable signal sequences can be derived from genes for secreted yeast proteins, such as the yeast invertase gene (EPO Publ. No. 012 873; JPO Publ. No. 62:096,086) and the A-factor gene (U.S. Patent 4,588,684). Alternatively, leaders of non-yeast origin, such as an interferon leader, exist that also provide for secretion in yeast (EPO Publ. No. 060 057).

A preferred class of secretion leaders are those that employ a fragment of the yeast alpha-factor gene, which contains both a "pre" signal sequence, and a "pro" region. The types of alpha-factor fragments that can be employed include the full-length pre-pro alpha factor leader (about 83 amino acid residues) as well as truncated alpha-factor leaders (usually about 25 to about 50 amino acid residues) (U.S. Patent Nos. 4,546,083 and 4,870,008; EPO Publ.

No. 324 274). Additional leaders employing an alpha-factor leader fragment that provides for secretion include hybrid alpha-factor leaders made with a presequence of a first yeast, but a pro-region from a second yeast alpha factor. (See e.g., PCT Publ. No. WO 89/02463.)

Usually, transcription termination sequences recognized by yeast are regulatory regions located 3' to the translation stop codon, and thus together with the promoter flank the coding sequence. These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Examples of transcription terminator sequence and other yeast-recognized termination sequences, such as those coding for glycolytic enzymes.

Usually, the above described components, comprising a promoter, leader (if desired), coding sequence of interest, and transcription termination sequence, are put together into expression constructs. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (e.g., plasmids) capable of stable maintenance in a host, such as yeast or bacteria. The replicon may have two replication systems, thus allowing it to be maintained, for example, in yeast for expression and in a prokaryotic host for cloning and amplification. Examples of such yeast-bacteria shuttle vectors include YEp24 (Botstein *et al.* (1979) *Gene 8*:17-24), pCl/1 (Brake *et al.* (1984) *Proc. Natl. Acad. Sci USA 81*:4642-4646), and YRp17 (Stinchcomb *et al.* (1982) *J. Mol. Biol. 158*:157). In addition, a replicon may be either a high or low copy number plasmid. A high copy number plasmid will generally have a copy number ranging from about 5 to about 200, and usually about 10 to about 150. A host containing a high copy number plasmid will preferably have at least about 10, and more preferably at least about 20. Enter a high or low copy number vector may be selected, depending upon the effect of the vector and the foreign protein on the host. See e.g., Brake *et al., supra*.

Alternatively, the expression constructs can be integrated into the yeast genome with an integrating vector. Integrating vectors usually contain at least one sequence homologous to a yeast chromosome that allows the vector to integrate, and preferably contain two homologous sequences flanking the expression construct. Integrations appear to result from recombinations between homologous DNA in the vector and the yeast chromosome (Orr-Weaver *et al.* (1983) *Methods in Enzymol. 101*:228-245). An integrating vector may be directed to a specific locus in yeast by selecting the appropriate homologous sequence for

inclusion in the vector. See Orr-Weaver *et al., supra*. One or more expression construct may integrate, possibly affecting levels of recombinant protein produced (Rine *et al.* (1983) *Proc. Natl. Acad. Sci. USA 80*:6750). The chromosomal sequences included in the vector can occur either as a single segment in the vector, which results in the integration of the entire vector, or two segments homologous to adjacent segments in the chromosome and flanking the expression construct in the vector, which can result in the stable integration of only the expression construct.

Usually, extrachromosomal and integrating expression constructs may contain selectable markers to allow for the selection of yeast strains that have been transformed. Selectable markers may include biosynthetic genes that can be expressed in the yeast host, such as *ADE2*, *HIS4*, *LEU2*, *TRP1*, and *ALG7*, and the G418 resistance gene, which confer resistance in yeast cells to tunicamycin and G418, respectively. In addition, a suitable selectable marker may also provide yeast with the ability to grow in the presence of toxic compounds, such as metal. For example, the presence of *CUP1* allows yeast to grow in the presence of copper ions (Butt *et al.* (1987) *Microbiol, Rev. 51*:351).

Alternatively, some of the above described components can be put together into transformation vectors. Transformation vectors are usually comprised of a selectable marker that is either maintained in a replicon or developed into an integrating vector, as described above.

Expression and transformation vectors, either extrachromosomal replicons or integrating vectors, have been developed for transformation into many yeasts. For example, expression vectors and methods of introducing exogenous DNA into yeast hosts have been developed for, *inter alia*, the following yeasts: *Candida albicans* (Kurtz, *et al.* (1986) *Mol. Cell. Biol. 6*:142); *Candida maltosa* (Kunze, *et al.* (1985) *J. Basic Microbiol. 25*:141); *Hansenula polymorpha* (Gleeson, *et al.* (1986) *J. Gen. Microbiol. 132*:3459; Roggenkamp *et al.* (1986) *Mol. Gen. Genet. 202*:302); *Kluyveromyces fragilis* (Das, *et al.* (1984) *J. Bacteriol. 158*:1165); *Kluyveromyces lactis* (De Louvencourt *et al.* (1983) *J. Bacteriol. 154*:737; Van den Berg *et al.* (1990) *Bio/Technology 8*:135); *Pichia guillerimondii* (Kunze *et al.* (1985) *J. Basic Microbiol. 25*:141); *Pichia pastoris* (Cregg, *et al.* (1985) *Mol. Cell. Biol. 5*:3376; U.S. Patent Nos. 4,837,148 and 4,929,555); *Saccharomyces cerevisiae* (Hinnen *et al.* (1978) *Proc. Natl. Acad. Sci. USA 75*:1929; Ito *et al.* (1983) *J. Bacteriol. 153*:163); *Schizosaccharomyces*

pombe (Beach and Nurse (1981) *Nature 300*:706); and *Yarrowia lipolytica* (Davidow, *et al.* (1985) *Curr. Genet. 10*:380471 Gaillardin, *et al.* (1985) *Curr. Genet. 10*:49).

Methods of introducing exogenous DNA into yeast hosts are well-known in the art, and usually include either the transformation of spheroplasts or of intact yeast cells treated with alkali cations. Transformation procedures usually vary with the yeast species to be transformed. See e.g., [Kurtz *et al.* (1986) *Mol. Cell. Biol. 6*:142; Kunze *et al.* (1985) *J. Basic Microbiol. 25*:141; Candida]; [Gleeson *et al.* (1986) *J. Gen. Microbiol. 132*:3459; Roggenkamp *et al.* (1986) *Mol. Gen. Genet. 202*:302; Hansenula]; [Das *et al.* (1984) *J. Bacteriol. 158*:1165; De Louvencourt *et al.* (1983) *J. Bacteriol. 154*:1165; Van den Berg *et al.* (1990) *Bio/Technology 8*:135; Kluyveromyces]; [Cregg *et al.* (1985) *Mol. Cell. Biol. 5*:3376; Kunze *et al.* (1985) *J. Basic Microbiol. 25*:141; U.S. Patent Nos. 4,837,148 and 4,929,555; Pichia]; [Hinnen *et al.* (1978) *Proc. Natl. Acad. Sci. USA 75*;1929; Ito *et al.* (1983) *J. Bacteriol. 153*:163 Saccharomyces]; [Beach and Nurse (1981) *Nature 300*:706; Schizosaccharomyces]; [Davidow *et al.* (1985) *Curr. Genet. 10*:39; Gaillardin *et al.* (1985) *Curr. Genet. 10*:49; Yarrowia].

Definitions

A composition containing X is "substantially free of" Y when at least 85% by weight of the total X+Y in the composition is X. Preferably, X comprises at least about 90% by weight of the total of X+Y in the composition, more preferably at least about 95% or even 99% by weight.

The term "heterologous" refers to two biological components that are not found together in nature. The components may be host cells, genes, or regulatory regions, such as promoters. Although the heterologous components are not found together in nature, they can function together, as when a promoter heterologous to a gene is operably linked to the gene. Another example is where a Neisserial sequence is heterologous to a mouse host cell.

An "origin of replication" is a polynucleotide sequence that initiates and regulates replication of polynucleotides, such as an expression vector. The origin of replication behaves as an autonomous unit of polynucleotide replication within a cell, capable of replication under its own control. An origin of replication may be needed for a vector to replicate in a particular host cell. With certain origins of replication, an expression vector can be

reproduced at a high copy number in the presence of the appropriate proteins within the cell. Examples of origins are the autonomously replicating sequences, which are effective in yeast; and the viral T-antigen, effective in COS-7 cells.

A "mutant" sequence is defined as a DNA, RNA or amino acid sequence differing from but having homology with the native or disclosed sequence. Depending on the particular sequence, the degree of homology between the native or disclosed sequence and the mutant sequence is preferably greater than 50% (e.g., 60%, 70%, 80%, 90%, 95%, 99% or more) which is calculated as described above. As used herein, an "allelic variant" of a nucleic acid molecule, or region, for which nucleic acid sequence is provided herein is a nucleic acid molecule, or region, that occurs at essentially the same locus in the genome of another or second isolate, and that, due to natural variation caused by, for example, mutation or recombination, has a similar but not identical nucleic acid sequence. A coding region allelic variant typically encodes a protein having similar activity to that of the protein encoded by the gene to which it is being compared. An allelic variant can also comprise an alteration in the 5' or 3' untranslated regions of the gene, such as in regulatory control regions. (see, for example, U.S. Patent 5,753,235).

Antibodies

As used herein, the term "antibody" refers to a polypeptide or group of polypeptides composed of at least one antibody combining site. An "antibody combining site" is the three-dimensional binding space with an internal surface shape and charge distribution complementary to the features of an epitope of an antigen, which allows a binding of the antibody with the antigen. "Antibody" includes, for example, vertebrate antibodies, hybrid antibodies, chimeric antibodies, humanized antibodies, altered antibodies, univalent antibodies, Fab proteins, and single domain antibodies.

Antibodies against the proteins of the invention are useful for affinity chromatography, immunoassays, and distinguishing/identifying *Neisseria* MenB proteins. Antibodies elicited against the proteins of the present invention bind to antigenic polypeptides or proteins or protein fragments that are present and specifically associated with strains of *Neisseria meningitidis* MenB. In some instances, these antigens may be associated with specific strains, such as those antigens specific for the MenB strains. The antibodies of

the invention may be immobilized to a matrix and utilized in an immunoassay or on an affinity chromatography column, to enable the detection and/or separation of polypeptides, proteins or protein fragments or cells comprising such polypeptides, proteins or protein fragments. Alternatively, such polypeptides, proteins or protein fragments may be immobilized so as to detect antibodies bindably specific thereto.

Antibodies to the proteins of the invention, both polyclonal and monoclonal, may be prepared by conventional methods. In general, the protein is first used to immunize a suitable animal, preferably a mouse, rat, rabbit or goat. Rabbits and goats are preferred for the preparation of polyclonal sera due to the volume of serum obtainable, and the availability of labeled anti-rabbit and anti-goat antibodies. Immunization is generally performed by mixing or emulsifying the protein in saline, preferably in an adjuvant such as Freund's complete adjuvant, and injecting the mixture or emulsion parenterally (generally subcutaneously or intramuscularly). A dose of 50-200 μg/injection is typically sufficient. Immunization is generally boosted 2-6 weeks later with one or more injections of the protein in saline, preferably using Freund's incomplete adjuvant. One may alternatively generate antibodies by in vitro immunization using methods known in the art, which for the purposes of this invention is considered equivalent to *in vivo* immunization. Polyclonal antisera is obtained by bleeding the immunized animal into a glass or plastic container, incubating the blood at 25°C for one hour, followed by incubating at 4°C for 2-18 hours. The serum is recovered by centrifugation (e.g., 1,000g for 10 minutes). About 20-50 ml per bleed may be obtained from rabbits.

Monoclonal antibodies are prepared using the standard method of Kohler & Milstein (*Nature* (1975) 256:495-96), or a modification thereof. Typically, a mouse or rat is immunized as described above. However, rather than bleeding the animal to extract serum, the spleen (and optionally several large lymph nodes) is removed and dissociated into single cells. If desired, the spleen cells may be screened (after removal of nonspecifically adherent cells) by applying a cell suspension to a plate or well coated with the protein antigen. B-cells that express membrane-bound immunoglobulin specific for the antigen bind to the plate, and are not rinsed away with the rest of the suspension. Resulting B-cells, or all dissociated spleen cells, are then induced to fuse with myeloma cells to form hybridomas, and are cultured in a selective medium (e.g., hypoxanthine, aminopterin, thymidine medium,

"HAT"). The resulting hybridomas are plated by limiting dilution, and are assayed for the production of antibodies which bind specifically to the immunizing antigen (and which do not bind to unrelated antigens). The selected MAb-secreting hybridomas are then cultured either *in vitro* (e.g., in tissue culture bottles or hollow fiber reactors), or *in vivo* (as ascites in mice).

If desired, the antibodies (whether polyclonal or monoclonal) may be labeled using conventional techniques. Suitable labels include fluorophores, chromophores, radioactive atoms (particularly ^{32}P and ^{125}I), electron-dense reagents, enzymes, and ligands having specific binding partners. Enzymes are typically detected by their activity. For example, horseradish peroxidase is usually detected by its ability to convert 3,3',5,5'-tetramethylbenzidine (TMB) to a blue pigment, quantifiable with a spectrophotometer. "Specific binding partner" refers to a protein capable of binding a ligand molecule with high specificity, as for example in the case of an antigen and a monoclonal antibody specific therefor. Other specific binding partners include biotin and avidin or streptavidin, IgG and protein A, and the numerous receptor-ligand couples known in the art. It should be understood that the above description is not meant to categorize the various labels into distinct classes, as the same label may serve in several different modes. For example, ^{125}I may serve as a radioactive label or as an electron-dense reagent. HRP may serve as enzyme or as antigen for a MAb. Further, one may combine various labels for desired effect. For example, MAbs and avidin also require labels in the practice of this invention: thus, one might label a MAb with biotin, and detect its presence with avidin labeled with ^{125}I, or with an anti-biotin MAb labeled with HRP. Other permutations and possibilities will be readily apparent to those of ordinary skill in the art, and are considered as equivalents within the scope of the instant invention.

Antigens, immunogens, polypeptides, proteins or protein fragments of the present invention elicit formation of specific binding partner antibodies. These antigens, immunogens, polypeptides, proteins or protein fragments of the present invention comprise immunogenic compositions of the present invention. Such immunogenic compositions may further comprise or include adjuvants, carriers, or other compositions that promote or enhance or stabilize the antigens, polypeptides, proteins or protein fragments of the present

invention. Such adjuvants and carriers will be readily apparent to those of ordinary skill in the art.

Pharmaceutical Compositions

Pharmaceutical compositions can include either polypeptides, antibodies, or nucleic acid of the invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature, when given to a patient that is febrile. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in Remington's Pharmaceutical Sciences (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the compositions of the invention can be administered directly to the subject. The subjects to be treated can be animals; in particular, human subjects can be treated.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly or delivered to the interstitial space of a tissue. The compositions can also be administered into a lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal and transcutaneous applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Vaccines

Vaccines according to the invention may either be prophylactic (i.e., to prevent infection) or therapeutic (i.e., to treat disease after infection).

Such vaccines comprise immunizing antigen(s) or immunogen(s), immunogenic polypeptide, protein(s) or protein fragments, or nucleic acids (e.g., ribonucleic acid or deoxyribonucleic acid), usually in combination with "pharmaceutically acceptable carriers," which include any carrier that does not itself induce the production of antibodies harmful to

the individual receiving the composition. Suitable carriers are typically large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, lipid aggregates (such as oil droplets or liposomes), and inactive virus particles. Such carriers are well known to those of ordinary skill in the art. Additionally, these carriers may function as immunostimulating agents ("adjuvants"). Furthermore, the immunogen or antigen may be conjugated to a bacterial toxoid, such as a toxoid from diphtheria, tetanus, cholera, *H. pylori*, etc. pathogens.

Preferred adjuvants to enhance effectiveness of the composition include, but are not limited to: (1) aluminum salts (alum), such as aluminum hydroxide, aluminum phosphate, aluminum sulfate, etc; (2) oil-in-water emulsion formulations (with or without other specific immunostimulating agents such as muramyl peptides (see below) or bacterial cell wall components), such as for example (a) MF59 (PCT Publ. No. WO 90/14837), containing 5% Squalene, 0.5% Tween 80, and 0.5% Span 85 (optionally containing various amounts of MTP-PE (see below), although not required) formulated into submicron particles using a microfluidizer such as Model 110Y microfluidizer (Microfluidics, Newton, MA), (b) SAF, containing 10% Squalane, 0.4% Tween 80, 5% pluronic-blocked polymer L121, and thr-MDP (see below) either microfluidized into a submicron emulsion or vortexed to generate a larger particle size emulsion, and (c) Ribi™ adjuvant system (RAS), (Ribi Immunochem, Hamilton, MT) containing 2% Squalene, 0.2% Tween 80, and one or more bacterial cell wall components from the group consisting of monophosphorylipid A (MPL), trehalose dimycolate (TDM), and cell wall skeleton (CWS), preferably MPL + CWS (Detox™); (3) saponin adjuvants, such as Stimulon™ (Cambridge Bioscience, Worcester, MA) may be used or particles generated therefrom such as ISCOMs (immunostimulating complexes); (4) Complete Freund's Adjuvant (CFA) and Incomplete Freund's Adjuvant (IFA); (5) cytokines, such as interleukins (e.g., IL-1, IL-2, IL-4, IL-5, IL-6, IL-7, IL-12, *etc.*), interferons (e.g., gamma interferon), macrophage colony stimulating factor (M-CSF), tumor necrosis factor (TNF), etc; (6) detoxified mutants of a bacterial ADP-ribosylating toxin such as a cholera toxin (CT), a pertussis toxin (PT), or an E. coli heat-labile toxin (LT), particularly LT-K63, LT-R72, CT-S109, PT-K9/G129; see, e.g., WO 93/13302 and WO 92/19265; and (7) other substances that act as immunostimulating agents to enhance the effectiveness of the composition. Alum and MF59 are preferred.

As mentioned above, muramyl peptides include, but are not limited to, N-acetyl-muramyl-L-threonyl-D-isoglutamine (thr-MDP), N-acetyl-normuramyl-L-alanyl-D-isoglutamine (nor-MDP), N-acetylmuramyl-L-alanyl-D-isoglutaminyl-L-alanine-2-(1'-2'-dipalmitoyl-*sn*-glycero-3-huydroxyphosphoryloxy)-ethylamine (MTP-PE), *etc.*

The vaccine compositions comprising immunogenic compositions (e.g., which may include the antigen, pharmaceutically acceptable carrier, and adjuvant) typically will contain diluents, such as water, saline, glycerol, ethanol, etc. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Alternatively, vaccine compositions comprising immunogenic compositions may comprise an antigen, polypeptide, protein, protein fragment or nucleic acid in a pharmaceutically acceptable carrier.

More specifically, vaccines comprising immunogenic compositions comprise an immunologically effective amount of the immunogenic polypeptides, as well as any other of the above-mentioned components, as needed. By "immunologically effective amount", it is meant that the administration of that amount to an individual, either in a single dose or as part of a series, is effective for treatment or prevention. This amount varies depending upon the health and physical condition of the individual to be treated, the taxonomic group of individual to be treated (e.g., nonhuman primate, primate, *etc.*), the capacity of the individual's immune system to synthesize antibodies, the degree of protection desired, the formulation of the vaccine, the treating doctor's assessment of the medical situation, and other relevant factors. It is expected that the amount will fall in a relatively broad range that can be determined through routine trials.

Typically, the vaccine compositions or immunogenic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. The preparation also may be emulsified or encapsulated in liposomes for enhanced adjuvant effect, as discussed above under pharmaceutically acceptable carriers.

The immunogenic compositions are conventionally administered parenterally, e.g., by injection, either subcutaneously or intramuscularly. Additional formulations suitable for other modes of administration include oral and pulmonary formulations, suppositories, and transdermal and transcutaneous applications. Dosage treatment may be a single dose schedule

or a multiple dose schedule. The vaccine may be administered in conjunction with other immunoregulatory agents.

As an alternative to protein-based vaccines, DNA vaccination may be employed (e.g., Robinson & Torres (1997) *Seminars in Immunology* 9:271-283; Donnelly *et al.* (1997) *Annu Rev Immunol* 15:617-648).

Gene Delivery Vehicles

Gene therapy vehicles for delivery of constructs, including a coding sequence of a therapeutic of the invention, to be delivered to the mammal for expression in the mammal, can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches in *in vivo* or *ex vivo* modality. Expression of such coding sequence can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence in vivo can be either constitutive or regulated.

The invention includes gene delivery vehicles capable of expressing the contemplated nucleic acid sequences. The gene delivery vehicle is preferably a viral vector and, more preferably, a retroviral, adenoviral, adeno-associated viral (AAV), herpes viral, or alphavirus vector. The viral vector can also be an astrovirus, coronavirus, orthomyxovirus, papovavirus, paramyxovirus, parvovirus, picornavirus, poxvirus, or togavirus viral vector. See generally, Jolly (1994) *Cancer Gene Therapy* 1:51-64; Kimura (1994) *Human Gene Therapy* 5:845-852; Connelly (1995) *Human Gene Therapy* 6:185-193; and Kaplitt (1994) *Nature Genetics* 6:148-153.

Retroviral vectors are well known in the art, including B, C and D type retroviruses, xenotropic retroviruses (for example, NZB-X1, NZB-X2 and NZB9-1 (see O'Neill (1985) *J. Virol.* 53:160) polytropic retroviruses e.g., MCF and MCF-MLV (see Kelly (1983) *J. Virol.* 45:291), spumaviruses and lentiviruses. See RNA Tumor Viruses, Second Edition, Cold Spring Harbor Laboratory, 1985.

Portions of the retroviral gene therapy vector may be derived from different retroviruses. For example, retrovector LTRs may be derived from a Murine Sarcoma Virus, a tRNA binding site from a Rous Sarcoma Virus, a packaging signal from a Murine Leukemia Virus, and an origin of second strand synthesis from an Avian Leukosis Virus.

These recombinant retroviral vectors may be used to generate transduction competent retroviral vector particles by introducing them into appropriate packaging cell lines (see US patent 5,591,624). Retrovirus vectors can be constructed for site-specific integration into host cell DNA by incorporation of a chimeric integrase enzyme into the retroviral particle (see WO96/37626). It is preferable that the recombinant viral vector is a replication defective recombinant virus.

Packaging cell lines suitable for use with the above-described retrovirus vectors are well known in the art, are readily prepared (see WO95/30763 and WO92/05266), and can be used to create producer cell lines (also termed vector cell lines or "VCLs") for the production of recombinant vector particles. Preferably, the packaging cell lines are made from human parent cells (e.g., HT1080 cells) or mink parent cell lines, which eliminates inactivation in human serum.

Preferred retroviruses for the construction of retroviral gene therapy vectors include Avian Leukosis Virus, Bovine Leukemia, Virus, Murine Leukemia Virus, Mink-Cell Focus-Inducing Virus, Murine Sarcoma Virus, Reticuloendotheliosis Virus and Rous Sarcoma Virus. Particularly preferred Murine Leukemia Viruses include 4070A and 1504A (Hartley and Rowe (1976) *J Virol* 19:19-25), Abelson (ATCC No. VR-999), Friend (ATCC No. VR-245), Graffi, Gross (ATCC Nol VR-590), Kirsten, Harvey Sarcoma Virus and Rauscher (ATCC No. VR-998) and Moloney Murine Leukemia Virus (ATCC No. VR-190). Such retroviruses may be obtained from depositories or collections such as the American Type Culture Collection ("ATCC") in Rockville, Maryland or isolated from known sources using commonly available techniques.

Exemplary known retroviral gene therapy vectors employable in this invention include those described in patent applications GB2200651, EP0415731, EP0345242, EP0334301, WO89/02468; WO89/05349, WO89/09271, WO90/02806, WO90/07936, WO94/03622, WO93/25698, WO93/25234, WO93/11230, WO93/10218, WO91/02805, WO91/02825, WO95/07994, US 5,219,740, US 4,405,712, US 4,861,719, US 4,980,289, US 4,777,127, US 5,591,624. See also Vile (1993) *Cancer Res* 53:3860-3864; Vile (1993) *Cancer Res* 53:962-967; Ram (1993) *Cancer Res* 53 (1993) 83-88; Takamiya (1992) *J Neurosci Res* 33:493-503; Baba (1993) *J Neurosurg* 79:729-735; Mann (1983) *Cell* 33:153; Cane (1984) *Proc Natl Acad Sci* 81:6349; and Miller (1990) *Human Gene Therapy* 1.

Human adenoviral gene therapy vectors are also known in the art and employable in this invention. See, for example, Berkner (1988) *Biotechniques* 6:616 and Rosenfeld (1991) *Science* 252:431, and WO93/07283, WO93/06223, and WO93/07282. Exemplary known adenoviral gene therapy vectors employable in this invention include those described in the above referenced documents and in WO94/12649, WO93/03769, WO93/19191, WO94/28938, WO95/11984, WO95/00655, WO95/27071, WO95/29993, WO95/34671, WO96/05320, WO94/08026, WO94/11506, WO93/06223, WO94/24299, WO95/14102, WO95/24297, WO95/02697, WO94/28152, WO94/24299, WO95/09241, WO95/25807, WO95/05835, WO94/18922 and WO95/09654. Alternatively, administration of DNA linked to killed adenovirus as described in Curiel (1992) *Hum. Gene Ther.* 3:147-154 may be employed. The gene delivery vehicles of the invention also include adenovirus associated virus (AAV) vectors. Leading and preferred examples of such vectors for use in this invention are the AAV-2 based vectors disclosed in Srivastava, WO93/09239. Most preferred AAV vectors comprise the two AAV inverted terminal repeats in which the native D-sequences are modified by substitution of nucleotides, such that at least 5 native nucleotides and up to 18 native nucleotides, preferably at least 10 native nucleotides up to 18 native nucleotides, most preferably 10 native nucleotides are retained and the remaining nucleotides of the D-sequence are deleted or replaced with non-native nucleotides. The native D-sequences of the AAV inverted terminal repeats are sequences of 20 consecutive nucleotides in each AAV inverted terminal repeat (i.e., there is one sequence at each end) which are not involved in HP formation. The non-native replacement nucleotide may be any nucleotide other than the nucleotide found in the native D-sequence in the same position. Other employable exemplary AAV vectors are pWP-19, pWN-1, both of which are disclosed in Nahreini (1993) *Gene* 124:257-262. Another example of such an AAV vector is psub201 (see Samulski (1987) *J. Virol.* 61:3096). Another exemplary AAV vector is the Double-D ITR vector. Construction of the Double-D ITR vector is disclosed in US Patent 5,478,745. Still other vectors are those disclosed in Carter US Patent 4,797,368 and Muzyczka US Patent 5,139,941, Chartejee US Patent 5,474,935, and Kotin WO94/288157. Yet a further example of an AAV vector employable in this invention is SSV9AFABTKneo, which contains the AFP enhancer and albumin promoter and directs expression predominantly in the liver. Its structure and construction are disclosed in Su (1996) *Human Gene Therapy* 7:463-470.

Additional AAV gene therapy vectors are described in US 5,354,678, US 5,173,414, US 5,139,941, and US 5,252,479.

The gene therapy vectors comprising sequences of the invention also include herpes vectors. Leading and preferred examples are herpes simplex virus vectors containing a sequence encoding a thymidine kinase polypeptide such as those disclosed in US 5,288,641 and EP0176170 (Roizman). Additional exemplary herpes simplex virus vectors include HFEM/ICP6-LacZ disclosed in WO95/04139 (Wistar Institute), pHSVlac described in Geller (1988) *Science* 241:1667-1669 and in WO90/09441 and WO92/07945, HSV Us3::pgC-lacZ described in Fink (1992) *Human Gene Therapy* 3:11-19 and HSV 7134, 2 RH 105 and GAL4 described in EP 0453242 (Breakefield), and those deposited with the ATCC as accession numbers ATCC VR-977 and ATCC VR-260.

Also contemplated are alpha virus gene therapy vectors that can be employed in this invention. Preferred alpha virus vectors are Sindbis viruses vectors. Togaviruses, Semliki Forest virus (ATCC VR-67; ATCC VR-1247), Middleberg virus (ATCC VR-370), Ross River virus (ATCC VR-373; ATCC VR-1246), Venezuelan equine encephalitis virus (ATCC VR923; ATCC VR-1250; ATCC VR-1249; ATCC VR-532), and those described in US patents 5,091,309, 5,217,879, and WO92/10578. More particularly, those alpha virus vectors described in U.S. Serial No. 08/405,627, filed March 15, 1995,WO94/21792, WO92/10578, WO95/07994, US 5,091,309 and US 5,217,879 are employable. Such alpha viruses may be obtained from depositories or collections such as the ATCC in Rockville, Maryland or isolated from known sources using commonly available techniques. Preferably, alphavirus vectors with reduced cytotoxicity are used (see USSN 08/679640).

DNA vector systems such as eukarytic layered expression systems are also useful for expressing the nucleic acids of the invention. SeeWO95/07994 for a detailed description of eukaryotic layered expression systems. Preferably, the eukaryotic layered expression systems of the invention are derived from alphavirus vectors and most preferably from Sindbis viral vectors.

Other viral vectors suitable for use in the present invention include those derived from poliovirus, for example ATCC VR-58 and those described in Evans, Nature 339 (1989) 385 and Sabin (1973) *J. Biol. Standardization* 1:115; rhinovirus, for example ATCC VR-1110 and those described in Arnold (1990) *J Cell Biochem* L401; pox viruses such as canary pox

virus or vaccinia virus, for example ATCC VR-111 and ATCC VR-2010 and those described in Fisher-Hoch (1989) *Proc Natl Acad Sci* 86:317; Flexner (1989) *Ann NY Acad Sci* 569:86, Flexner (1990) *Vaccine* 8:17; in US 4,603,112 and US 4,769,330 and WO89/01973; SV40 virus, for example ATCC VR-305 and those described in Mulligan (1979) *Nature* 277:108 and Madzak (1992) *J Gen Virol* 73:1533; influenza virus, for example ATCC VR-797 and recombinant influenza viruses made employing reverse genetics techniques as described in US 5,166,057 and in Enami (1990) *Proc Natl Acad Sci* 87:3802-3805; Enami & Palese (1991) *J Virol* 65:2711-2713 and Luytjes (1989) *Cell* 59:110, (see also McMichael (1983) *NEJ Med* 309:13, and Yap (1978) *Nature* 273:238 and Nature (1979) 277:108); human immunodeficiency virus as described in EP-0386882 and in Buchschacher (1992) *J. Virol.* 66:2731; measles virus, for example ATCC VR-67 and VR-1247 and those described in EP-0440219; Aura virus, for example ATCC VR-368; Bebaru virus, for example ATCC VR-600 and ATCC VR-1240; Cabassou virus, for example ATCC VR-922; Chikungunya virus, for example ATCC VR-64 and ATCC VR-1241; Fort Morgan Virus, for example ATCC VR-924; Getah virus, for example ATCC VR-369 and ATCC VR-1243; Kyzylagach virus, for example ATCC VR-927; Mayaro virus, for example ATCC VR-66; Mucambo virus, for example ATCC VR-580 and ATCC VR-1244; Ndumu virus, for example ATCC VR-371; Pixuna virus, for example ATCC VR-372 and ATCC VR-1245; Tonate virus, for example ATCC VR-925; Triniti virus, for example ATCC VR-469; Una virus, for example ATCC VR-374; Whataroa virus, for example ATCC VR-926; Y-62-33 virus, for example ATCC VR-375; O'Nyong virus, Eastern encephalitis virus, for example ATCC VR-65 and ATCC VR-1242; Western encephalitis virus, for example ATCC VR-70, ATCC VR-1251, ATCC VR-622 and ATCC VR-1252; and coronavirus, for example ATCC VR-740 and those described in Hamre (1966) *Proc Soc Exp Biol Med* 121:190.

Delivery of the compositions of this invention into cells is not limited to the above mentioned viral vectors. Other delivery methods and media may be employed such as, for example, nucleic acid expression vectors, polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example see US Serial No. 08/366,787, filed December 30, 1994 and Curiel (1992) *Hum Gene Ther* 3:147-154 ligand linked DNA, for example see Wu (1989) *J Biol Chem* 264:16985-16987, eucaryotic cell delivery vehicles cells, for example see US Serial No.08/240,030, filed May 9, 1994, and US Serial No. 08/404,796, deposition of

photopolymerized hydrogel materials, hand-held gene transfer particle gun, as described in US Patent 5,149,655, ionizing radiation as described in US5,206,152 and in WO92/11033, nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip (1994) *Mol Cell Biol* 14:2411-2418 and in Woffendin (1994) *Proc Natl Acad Sci* 91:1581-1585.

Particle mediated gene transfer may be employed, for example see US Serial No. 60/023,867. Briefly, the sequence can be inserted into conventional vectors that contain conventional control sequences for high level expression, and then incubated with synthetic gene transfer molecules such as polymeric DNA-binding cations like polylysine, protamine, and albumin, linked to cell targeting ligands such as asialoorosomucoid, as described in Wu & Wu (1987) *J. Biol. Chem.* 262:4429-4432, insulin as described in Hucked (1990) *Biochem Pharmacol* 40:253-263, galactose as described in Plank (1992) *Bioconjugate Chem* 3:533-539, lactose or transferrin.

Naked DNA may also be employed to transform a host cell. Exemplary naked DNA introduction methods are described in WO 90/11092 and US 5,580,859. Uptake efficiency may be improved using biodegradable latex beads. DNA coated latex beads are efficiently transported into cells after endocytosis initiation by the beads. The method may be improved further by treatment of the beads to increase hydrophobicity and thereby facilitate disruption of the endosome and release of the DNA into the cytoplasm.

Liposomes that can act as gene delivery vehicles are described in U.S. 5,422,120, WO95/13796, WO94/23697, WO91/14445 and EP-524,968. As described in USSN. 60/023,867, on non-viral delivery, the nucleic acid sequences encoding a polypeptide can be inserted into conventional vectors that contain conventional control sequences for high level expression, and then be incubated with synthetic gene transfer molecules such as polymeric DNA-binding cations like polylysine, protamine, and albumin, linked to cell targeting ligands such as asialoorosomucoid, insulin, galactose, lactose, or transferrin. Other delivery systems include the use of liposomes to encapsulate DNA comprising the gene under the control of a variety of tissue-specific or ubiquitously-active promoters. Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al* (1994) *Proc. Natl. Acad. Sci. USA* 91(24):11581-11585. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of

photopolymerized hydrogel materials. Other conventional methods for gene delivery that can be used for delivery of the coding sequence include, for example, use of hand-held gene transfer particle gun, as described in U.S. 5,149,655; use of ionizing radiation for activating transferred gene, as described in U.S. 5,206,152 and WO92/11033

Exemplary liposome and polycationic gene delivery vehicles are those described in US 5,422,120 and 4,762,915; inWO 95/13796; WO94/23697; and WO91/14445; in EP-0524968; and in Stryer, Biochemistry, pages 236-240 (1975) W.H. Freeman, San Francisco; Szoka (1980) *Biochem Biophys Acta* 600:1; Bayer (1979) *Biochem Biophys Acta* 550:464; Rivnay (1987) *Meth Enzymol* 149:119; Wang (1987) *Proc Natl Acad Sci* 84:7851; Plant (1989) *Anal Biochem* 176:420.

A polynucleotide composition can comprise a therapeutically effective amount of a gene therapy vehicle, as the term is defined above. For purposes of the present invention, an effective dose will be from about 0.01 mg/ kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be administered (1) directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) in vitro for expression of recombinant proteins. The subjects to be treated can be mammals or birds. Also, human subjects can be treated.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, transdermally or transcutaneously, intravenously or intramuscularly or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule. See WO98/20734.

Methods for the *ex vivo* delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., WO93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoetic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both *ex vivo* and *in vitro* applications can be accomplished by the following procedures, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

Polynucleotide and Polypeptide pharmaceutical compositions

In addition to the pharmaceutically acceptable carriers and salts described above, the following additional agents can be used with polynucleotide and/or polypeptide compositions.

A. Polypeptides

One example are polypeptides which include, without limitation: asialoorosomucoid (ASOR); transferrin; asialoglycoproteins; antibodies; antibody fragments; ferritin; interleukins; interferons, granulocyte, macrophage colony stimulating factor (GM-CSF), granulocyte colony stimulating factor (G-CSF), macrophage colony stimulating factor (M-CSF), stem cell factor and erythropoietin. Viral antigens, such as envelope proteins, can also be used. Also, proteins from other invasive organisms, such as the 17 amino acid peptide from the circumsporozoite protein of plasmodium falciparum known as RII.

B. Hormones, Vitamins, Etc.

Other groups that can be included in a pharmaceutical composition include, for example: hormones, steroids, androgens, estrogens, thyroid hormone, or vitamins, folic acid.

C. Polyalkylenes, Polysaccharides, *etc.*

Also, polyalkylene glycol can be included in a pharmaceutical compositions with the desired polynucleotides and/or polypeptides. In a preferred embodiment, the polyalkylene glycol is polyethlylene glycol. In addition, mono-, di-, or polysaccarides can be included. In a preferred embodiment of this aspect, the polysaccharide is dextran or DEAE-dextran. Also, chitosan and poly(lactide-co-glycolide) may be included in a pharmaceutical composition.

D. Lipids, and Liposomes

The desired polynucleotide or polypeptide can also be encapsulated in lipids or packaged in liposomes prior to delivery to the subject or to cells derived therefrom.

Lipid encapsulation is generally accomplished using liposomes which are able to stably bind or entrap and retain nucleic acid or polypeptide. The ratio of condensed polynucleotide to lipid preparation can vary but will generally be around 1:1 (mg DNA:micromoles lipid), or more of lipid. For a review of the use of liposomes as carriers for delivery of nucleic acids, see, Hug and Sleight (1991) *Biochim. Biophys. Acta.* 1097:1-17; Straubinger (1983) *Meth. Enzymol.* 101:512-527.

Liposomal preparations for use in the present invention include cationic (positively charged), anionic (negatively charged) and neutral preparations. Cationic liposomes have been shown to mediate intracellular delivery of plasmid DNA (Felgner (1987) *Proc. Natl. Acad. Sci. USA* 84:7413-7416); mRNA (Malone (1989) *Proc. Natl. Acad. Sci. USA* 86:6077-6081); and purified transcription factors (Debs (1990) *J. Biol. Chem.* 265:10189-10192), in functional form.

Cationic liposomes are readily available. For example, N(1-2,3-dioleyloxy)propyl)-N,N,N-triethylammonium (DOTMA) liposomes are available under the trademark Lipofectin, from GIBCO BRL, Grand Island, NY. (See, also, Felgner *supra*). Other commercially available liposomes include transfectace (DDAB/DOPE) and DOTAP/DOPE (Boerhinger). Other cationic liposomes can be prepared from readily available materials using techniques well known in the art. See, e.g., Szoka (1978) *Proc. Natl. Acad. Sci. USA* 75:4194-4198; WO90/11092 for a description of the synthesis of DOTAP (1,2-bis(oleoyloxy)-3-(trimethylammonio)propane) liposomes.

Similarly, anionic and neutral liposomes are readily available, such as from Avanti Polar Lipids (Birmingham, AL), or can be easily prepared using readily available materials. Such materials include phosphatidyl choline, cholesterol, phosphatidyl ethanolamine, dioleoylphosphatidyl choline (DOPC), dioleoylphosphatidyl glycerol (DOPG), dioleoylphoshatidyl ethanolamine (DOPE), among others. These materials can also be mixed with the DOTMA and DOTAP starting materials in appropriate ratios. Methods for making liposomes using these materials are well known in the art.

The liposomes can comprise multilammelar vesicles (MLVs), small unilamellar vesicles (SUVs), or large unilamellar vesicles (LUVs). The various liposome-nucleic acid complexes are prepared using methods known in the art. See e.g., Straubinger (1983) *Meth. Immunol.* 101:512-527; Szoka (1978) *Proc. Natl. Acad. Sci. USA* 75:4194-4198; Papahadjopoulos (1975) *Biochim. Biophys. Acta* 394:483; Wilson (1979) *Cell* 17:77); Deamer & Bangham (1976) *Biochim. Biophys. Acta* 443:629; Ostro (1977) *Biochem. Biophys. Res. Commun.* 76:836; Fraley (1979) *Proc. Natl. Acad. Sci. USA* 76:3348); Enoch & Strittmatter (1979) *Proc. Natl. Acad. Sci. USA* 76:145; Fraley (1980) *J. Biol. Chem.* (1980) 255:10431; Szoka & Papahadjopoulos (1978) *Proc. Natl. Acad. Sci. USA* 75:145; and Schaefer-Ridder (1982) *Science* 215:166.

E. Lipoproteins

In addition, lipoproteins can be included with the polynucleotide or polypeptide to be delivered. Examples of lipoproteins to be utilized include: chylomicrons, HDL, IDL, LDL, and VLDL. Mutants, fragments, or fusions of these proteins can also be used. Also, modifications of naturally occurring lipoproteins can be used, such as acetylated LDL. These lipoproteins can target the delivery of polynucleotides to cells expressing lipoprotein receptors. Preferably, if lipoproteins are including with the polynucleotide to be delivered, no other targeting ligand is included in the composition.

Naturally occurring lipoproteins comprise a lipid and a protein portion. The protein portion are known as apoproteins. At the present, apoproteins A, B, C, D, and E have been isolated and identified. At least two of these contain several proteins, designated by Roman numerals, AI, AII, AIV; CI, CII, CIII.

A lipoprotein can comprise more than one apoprotein. For example, naturally occurring chylomicrons comprises of A, B, C, and E, over time these lipoproteins lose A and acquire C and E apoproteins. VLDL comprises A, B, C, and E apoproteins, LDL comprises apoprotein B; and HDL comprises apoproteins A, C, and E.

The amino acid sequences of these apoproteins are known and are described in, for example, Breslow (1985) *Annu Rev. Biochem* 54:699; Law (1986) *Adv. Exp Med. Biol.* 151:162; Chen (1986) *J Biol Chem* 261:12918; Kane (1980) *Proc Natl Acad Sci USA* 77:2465; and Utermann (1984) *Hum Genet* 65:232.

Lipoproteins contain a variety of lipids including, triglycerides, cholesterol (free and esters), and phopholipids. The composition of the lipids varies in naturally occurring lipoproteins. For example, chylomicrons comprise mainly triglycerides. A more detailed description of the lipid content of naturally occurring lipoproteins can be found, for example, in *Meth. Enzymol.* 128 (1986). The composition of the lipids are chosen to aid in conformation of the apoprotein for receptor binding activity. The composition of lipids can also be chosen to facilitate hydrophobic interaction and association with the polynucleotide binding molecule.

Naturally occurring lipoproteins can be isolated from serum by ultracentrifugation, for instance. Such methods are described in *Meth. Enzymol.* (*supra*); Pitas (1980) *J. Biochem.* 255:5454-5460 and Mahey (1979) *J Clin. Invest* 64:743-750.

Lipoproteins can also be produced by *in vitro* or recombinant methods by expression of the apoprotein genes in a desired host cell. See, for example, Atkinson (1986) *Annu Rev Biophys Chem* 15:403 and Radding (1958) *Biochim Biophys Acta* 30: 443.

Lipoproteins can also be purchased from commercial suppliers, such as Biomedical Techniologies, Inc., Stoughton, Massachusetts, USA.

Further description of lipoproteins can be found in Zuckermann et al., PCT. Appln. No. US97/14465.

F. Polycationic Agents

Polycationic agents can be included, with or without lipoprotein, in a composition with the desired polynucleotide and/or polypeptide to be delivered.

Polycationic agents, typically, exhibit a net positive charge at physiological relevant pH and are capable of neutralizing the electrical charge of nucleic acids to facilitate delivery to a desired location. These agents have both in vitro, ex vivo, and in vivo applications. Polycationic agents can be used to deliver nucleic acids to a living subject either intramuscularly, subcutaneously, etc.

The following are examples of useful polypeptides as polycationic agents: polylysine, polyarginine, polyornithine, and protamine. Other examples of useful polypeptides include histones, protamines, human serum albumin, DNA binding proteins, non-histone chromosomal proteins, coat proteins from DNA viruses, such as ΦX174, transcriptional

factors also contain domains that bind DNA and therefore may be useful as nucleic aid condensing agents. Briefly, transcriptional factors such as C/CEBP, c-jun, c-fos, AP-1, AP-2, AP-3, CPF, Prot-1, Sp-1, Oct-1, Oct-2, CREP, and TFIID contain basic domains that bind DNA sequences.

Organic polycationic agents include: spermine, spermidine, and purtrescine.

The dimensions and of the physical properties of a polycationic agent can be extrapolated from the list above, to construct other polypeptide polycationic agents or to produce synthetic polycationic agents.

G. Synthetic Polycationic Agents

Synthetic polycationic agents which are useful in pharmaceutical compositions include, for example, DEAE-dextran, polybrene. Lipofectin™, and lipofectAMINE™ are monomers that form polycationic complexes when combined with polynucleotides or polypeptides.

Immunodiagnostic Assays

Neisseria MenB antigens, or antigenic fragments thereof, of the invention can be used in immunoassays to detect antibody levels (or, conversely, anti-*Neisseria* MenB antibodies can be used to detect antigen levels). Immunoassays based on well defined, recombinant antigens can be developed to replace invasive diagnostics methods. Antibodies to *Neisseria* MenB proteins or fragments thereof within biological samples, including for example, blood or serum samples, can be detected. Design of the immunoassays is subject to a great deal of variation, and a variety of these are known in the art. Protocols for the immunoassay may be based, for example, upon competition, or direct reaction, or sandwich type assays. Protocols may also, for example, use solid supports, or may be by immunoprecipitation. Most assays involve the use of labeled antibody or polypeptide; the labels may be, for example, fluorescent, chemiluminescent, radioactive, or dye molecules. Assays which amplify the signals from the probe are also known; examples of which are assays which utilize biotin and avidin, and enzyme-labeled and mediated immunoassays, such as ELISA assays.

Kits suitable for immunodiagnosis and containing the appropriate labeled reagents are constructed by packaging the appropriate materials, including the compositions of the

invention, in suitable containers, along with the remaining reagents and materials (for example, suitable buffers, salt solutions, *etc.*) required for the conduct of the assay, as well as suitable set of assay instructions.

Nucleic Acid Hybridization

"Hybridization" refers to the association of two nucleic acid sequences to one another by hydrogen bonding. Typically, one sequence will be fixed to a solid support and the other will be free in solution. Then, the two sequences will be placed in contact with one another under conditions that favor hydrogen bonding. Factors that affect this bonding include: the type and volume of solvent; reaction temperature; time of hybridization; agitation; agents to block the non-specific attachment of the liquid phase sequence to the solid support (Denhardt's reagent or BLOTTO); concentration of the sequences; use of compounds to increase the rate of association of sequences (dextran sulfate or polyethylene glycol); and the stringency of the washing conditions following hybridization. See Sambrook *et al.* (*supra*) Volume 2, chapter 9, pages 9.47 to 9.57.

"Stringency" refers to conditions in a hybridization reaction that favor association of very similar sequences over sequences that differ. For example, the combination of temperature and salt concentration should be chosen that is approximately 120 to 200°C below the calculated Tm of the hybrid under study. The temperature and salt conditions can often be determined empirically in preliminary experiments in which samples of genomic DNA immobilized on filters are hybridized to the sequence of interest and then washed under conditions of different stringencies. See Sambrook *et al.* at page 9.50.

Variables to consider when performing, for example, a Southern blot are (1) the complexity of the DNA being blotted and (2) the homology between the probe and the sequences being detected. The total amount of the fragment(s) to be studied can vary a magnitude of 10, from 0.1 to 1μg for a plasmid or phage digest to 10^{-9} to 10^{-8} g for a single copy gene in a highly complex eukaryotic genome. For lower complexity polynucleotides, substantially shorter blotting, hybridization, and exposure times, a smaller amount of starting polynucleotides, and lower specific activity of probes can be used. For example, a single-copy yeast gene can be detected with an exposure time of only 1 hour starting with 1 μg of yeast DNA, blotting for two hours, and hybridizing for 4-8 hours with a probe of 10^{8}

cpm/μg. For a single-copy mammalian gene a conservative approach would start with 10 μg of DNA, blot overnight, and hybridize overnight in the presence of 10% dextran sulfate using a probe of greater than 10^8 cpm/μg, resulting in an exposure time of ~24 hours.

Several factors can affect the melting temperature (Tm) of a DNA-DNA hybrid between the probe and the fragment of interest, and consequently, the appropriate conditions for hybridization and washing. In many cases the probe is not 100% homologous to the fragment. Other commonly encountered variables include the length and total G+C content of the hybridizing sequences and the ionic strength and formamide content of the hybridization buffer. The effects of all of these factors can be approximated by a single equation:

$$Tm = 81 + 16.6(\log_{10}Ci) + 0.4(\%(G + C)) - 0.6(\%\text{formamide}) - 600/n - 1.5(\%\text{mismatch})$$

where Ci is the salt concentration (monovalent ions) and n is the length of the hybrid in base pairs (slightly modified from Meinkoth & Wahl (1984) *Anal. Biochem.* 138:267-284).

In designing a hybridization experiment, some factors affecting nucleic acid hybridization can be conveniently altered. The temperature of the hybridization and washes and the salt concentration during the washes are the simplest to adjust. As the temperature of the hybridization increases (i.e., stringency), it becomes less likely for hybridization to occur between strands that are nonhomologous, and as a result, background decreases. If the radiolabeled probe is not completely homologous with the immobilized fragment (as is frequently the case in gene family and interspecies hybridization experiments), the hybridization temperature must be reduced, and background will increase. The temperature of the washes affects the intensity of the hybridizing band and the degree of background in a similar manner. The stringency of the washes is also increased with decreasing salt concentrations.

In general, convenient hybridization temperatures in the presence of 50% formamide are 42°C for a probe with is 95% to 100% homologous to the target fragment, 37°C for 90% to 95% homology, and 32°C for 85% to 90% homology. For lower homologies, formamide content should be lowered and temperature adjusted accordingly, using the equation above. If the homology between the probe and the target fragment are not known, the simplest approach is to start with both hybridization and wash conditions which are nonstringent. If non-specific bands or high background are observed after autoradiography, the filter can be washed at high stringency and reexposed. If the time required for exposure makes this

approach impractical, several hybridization and/or washing stringencies should be tested in parallel.

Nucleic Acid Probe Assays

Methods such as PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes according to the invention can determine the presence of cDNA or mRNA. A probe is said to "hybridize" with a sequence of the invention if it can form a duplex or double stranded complex, which is stable enough to be detected.

The nucleic acid probes will hybridize to the Neisserial nucleotide sequences of the invention (including both sense and antisense strands). Though many different nucleotide sequences will encode the amino acid sequence, the native Neisserial sequence is preferred because it is the actual sequence present in cells. mRNA represents a coding sequence and so a probe should be complementary to the coding sequence; single-stranded cDNA is complementary to mRNA, and so a cDNA probe should be complementary to the non-coding sequence.

The probe sequence need not be identical to the Neisserial sequence (or its complement) -- some variation in the sequence and length can lead to increased assay sensitivity if the nucleic acid probe can form a duplex with target nucleotides, which can be detected. Also, the nucleic acid probe can include additional nucleotides to stabilize the formed duplex. Additional Neisserial sequence may also be helpful as a label to detect the formed duplex. For example, a non-complementary nucleotide sequence may be attached to the 5' end of the probe, with the remainder of the probe sequence being complementary to a Neisserial sequence. Alternatively, non-complementary bases or longer sequences can be interspersed into the probe, provided that the probe sequence has sufficient complementarity with the a Neisserial sequence in order to hybridize therewith and thereby form a duplex which can be detected.

The exact length and sequence of the probe will depend on the hybridization conditions, such as temperature, salt condition and the like. For example, for diagnostic applications, depending on the complexity of the analyte sequence, the nucleic acid probe typically contains at least 10-20 nucleotides, preferably 15-25, and more preferably at least

30 nucleotides, although it may be shorter than this. Short primers generally require cooler temperatures to form sufficiently stable hybrid complexes with the template.

Probes may be produced by synthetic procedures, such as the triester method of Matteucci *et al.* (*J. Am. Chem. Soc.* (1981) 103:3185), or according to Urdea *et al.* (*Proc. Natl. Acad. Sci. USA* (1983) 80: 7461), or using commercially available automated oligonucleotide synthesizers.

The chemical nature of the probe can be selected according to preference. For certain applications, DNA or RNA are appropriate. For other applications, modifications may be incorporated e.g., backbone modifications, such as phosphorothioates or methylphosphonates, can be used to increase *in vivo* half-life, alter RNA affinity, increase nuclease resistance *etc.* (e.g., see Agrawal & Iyer (1995) *Curr Opin Biotechnol* 6:12-19; Agrawal (1996) *TIBTECH* 14:376-387); analogues such as peptide nucleic acids may also be used (e.g., see Corey (1997) *TIBTECH* 15:224-229; Buchardt *et al.* (1993) *TIBTECH* 11:384-386).

One example of a nucleotide hybridization assay is described by Urdea *et al.* in international patent application WO92/02526 (see also U.S. Patent 5,124,246).

Alternatively, the polymerase chain reaction (PCR) is another well-known means for detecting small amounts of target nucleic acids. The assay is described in: Mullis *et al.* (*Meth. Enzymol.* (1987) 155: 335-350); US patent 4,683,195; and US patent 4,683,202. Two "primer" nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers can comprise sequence that does not hybridize to the sequence of the amplification target (or its complement) to aid with duplex stability or, for example, to incorporate a convenient restriction site. Typically, such sequence will flank the desired Neisserial sequence.

A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a threshold amount of target nucleic acids are generated by the polymerase, they can be detected by more traditional methods, such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to the Neisserial sequence (or its complement).

Also, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al* (*supra*). mRNA, or cDNA generated from mRNA using a polymerase

enzyme, can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with a radioactive moiety.

EXAMPLES

The invention is based on the 961 nucleotide sequences from the genome of *N. meningitidis* set out in Appendix C, SEQ ID NOs:1-961, which together represent substantially the complete genome of serotype B of *N. meningitidis*, as well as the full length genome sequence shown in Appendix D, SEQ ID NO 1068.

It will be self-evident to the skilled person how this sequence information can be utilized according to the invention, as above described.

The standard techniques and procedures which may be employed in order to perform the invention (*e.g.* to utilize the disclosed sequences to predict polypeptides useful for vaccination or diagnostic purposes) were summarized above. This summary is not a limitation on the invention but, rather, gives examples that may be used, but are not required.

These sequences are derived from contigs shown in Appendix C (SEQ ID NOs 1-961) and from the full length genome sequence shown in Appendix D (SEQ ID NO 1068), which were prepared during the sequencing of the genome of *N. meningitidis* (strain B). The full length sequence was assembled using the TIGR Assembler as described by G.S. Sutton et al., *TIGR Assembler: A New Tool for Assembling Large Shotgun Sequencing Projects*, Genome Science and Technology, 1:9-19 (1995) [*see also* R. D. Fleischmann, et al., Science 269, 496-512 (1995); C. M. Fraser, et al., Science 270, 397-403 (1995); C. J. Bult, et al., Science 273, 1058-73 (1996); C. M. Fraser, et. al, Nature 390, 580-586 (1997); J.-F. Tomb, et. al., Nature 388, 539-547 (1997); H. P. Klenk, et al., Nature 390, 364-70 (1997); C. M. Fraser, et al., Science 281, 375-88 (1998); M. J. Gardner, et al., Science 282, 1126-1132 (1998); K. E. Nelson, et al., Nature 399, 323-9 (1999)]. Then, using the above-described methods, putative translation products of the sequences were determined. Computer analysis of the translation products were determined based on database comparisons. Corresponding gene and protein sequences, if any, were identified in Neisseria meningitidis (Strain A) and Neisseria

gonorrhoeae. Then the proteins were expressed, purified, and characterized to assess their antigenicity and immunogenicity.

In particular, the following methods were used to express, purify, and biochemically characterize the proteins of the invention.

Chromosomal DNA Preparation

N. meningitidis strain 2996 was grown to exponential phase in 100 ml of GC medium, harvested by centrifugation, and resuspended in 5 ml buffer (20% Sucrose, 50 mM Tris-HCl, 50 mM EDTA, adjusted to pH 8.0). After 10 minutes incubation on ice, the bacteria were lysed by adding 10 ml lysis solution (50 mM NaCl, 1% Na-Sarkosyl, 50 μg/ml Proteinase K), and the suspension was incubated at 37°C for 2 hours. Two phenol extractions (equilibrated to pH 8) and one $ChCl_3$/isoamylalcohol (24:1) extraction were performed. DNA was precipitated by addition of 0.3M sodium acetate and 2 volumes ethanol, and was collected by centrifugation. The pellet was washed once with 70% ethanol and redissolved in 4 ml buffer (10 mM Tris-HCl, 1mM EDTA, pH 8). The DNA concentration was measured by reading the OD at 260 nm.

Oligonucleotide design

Synthetic oligonucleotide primers were designed on the basis of the coding sequence of each ORF, using (a) the meningococcus B sequence when available, or (b) the gonococcus/meningococcus A sequence, adapted to the codon preference usage of meningococcus. Any predicted signal peptides were omitted, by deducing the 5'-end amplification primer sequence immediately downstream from the predicted leader sequence.

For most ORFs, the 5' primers included two restriction enzyme recognition sites (*BamH*I-*Nde*I, *BamH*I-*Nhe*I, or *EcoR*I-*Nhe*I, depending on the gene's restriction pattern); the 3' primers included a *Xho*I restriction site. This procedure was established in order to direct the cloning of each amplification product (corresponding to each ORF) into two different expression systems: pGEX-KG (using either *BamH*I-*Xho*I or *EcoR*I-*Xho*I), and pET21b+ (using either *Nde*I-*Xho*I or *Nhe*I-*Xho*I).

5'-end primer tail:	CGC<u>GGATCCCATATG</u>	(*BamH*I-*Nde*I)
	CGC<u>GGATCCGCTAGC</u>	(*BamH*I-*Nhe*I)

CCGGAATTCTAGCTAGC (*EcoR*I-*Nhe*I)

3'-end primer tail: CCCGCTCGAG (*Xho*I)

For some ORFs, two different amplifications were performed to clone each ORF in the two expression systems. Two different 5' primers were used for each ORF; the same 3' *Xho*I primer was used as before:

5'-end primer tail: GGAATTCCATATGGCCATGG (*Nde*I)

5'-end primer tail: CGGGATCC (*BamH*I)

Other ORFs were cloned in the pTRC expression vector and expressed as an amino-terminus His-tag fusion. The predicted signal peptide may be included in the final product. *Nhe*I-*BamH*I restriction sites were incorporated using primers:

5'-end primer tail: GATCAGCTAGCCATATG (*Nhe*I)

3'-end primer tail: CGGGATCC (*BamH*I)

As well as containing the restriction enzyme recognition sequences, the primers included nucleotides which hybridizeed to the sequence to be amplified. The number of hybridizing nucleotides depended on the melting temperature of the whole primer, and was determined for each primer using the formulae:

$T_m = 4\ (G+C) + 2\ (A+T)$ (tail excluded)

$T_m = 64.9 + 0.41\ (\%\ GC) - 600/N$ (whole primer)

The average melting temperature of the selected oligos were 65-70°C for the whole oligo and 50-55°C for the hybridising region alone.

Oligos were synthesized by a Perkin Elmer 394 DNA/RNA Synthesizer, eluted from the columns in 2 ml NH_4-OH, and deprotected by 5 hours incubation at 56 °C. The oligos were precipitated by addition of 0.3M Na-Acetate and 2 volumes ethanol. The samples were then centrifuged and the pellets resuspended in either 100μl or 1ml of water. OD_{260} was determined using a Perkin Elmer Lambda Bio spectophotometer and the concentration was determined and adjusted to 2-10 pmol/μl.

Table 1 shows the forward and reverse primers used for each amplification. In certain cases, it might be noted that the sequence of the primer does not exactly match the sequence in the ORF. When initial amplifications are performed, the complete 5' and/or 3' sequence

may not be known for some meningococcal ORFs, although the corresponding sequences may have been identified in gonoccus. For amplification, the gonococcal sequences could thus be used as the basis for primer design, altered to take account of codon preference. In particular, the following codons may be changed: ATA→ATT; TCG→TCT; CAG→CAA; AAG→AAA; GAG→GAA; CGA and CGG→CGC; GGG→GGC.

Amplification

The standard PCR protocol was as follows: 50-200 ng of genomic DNA were used as a template in the presence of 20-40 μM of each oligo, 400-800 μM dNTPs solution, 1x PCR buffer (including 1.5 mM $MgCl_2$), 2.5 units *TaqI* DNA polymerase (using Perkin-Elmer AmpliTaQ, GIBCO Platinum, Pwo DNA polymerase, or Tahara Shuzo Taq polymerase).

In some cases, PCR was optimsed by the addition of 10μl DMSO or 50 μl 2M betaine.

After a hot start (adding the polymerase during a preliminary 3 minute incubation of the whole mix at 95°C), each sample underwent a double-step amplification: the first 5 cycles were performed using as the hybridization temperature the one of the oligos excluding the restriction enzymes tail, followed by 30 cycles performed according to the hybridization temperature of the whole length oligos. The cycles were followed by a final 10 minute extension step at 72°C.

The standard cycles were as follows:

	Denaturation	Hybridisation	Elongation
First 5 cycles	30 seconds 95°C	30 seconds 50-55°C	30-60 seconds 72°C
Last 30 cycles	30 seconds 95°C	30 seconds 65-70°C	30-60 seconds 72°C

The elongation time varied according to the length of the ORF to be amplified.

The amplifications were performed using either a 9600 or a 2400 Perkin Elmer GeneAmp PCR System. To check the results, 1/10 of the amplification volume was loaded onto a 1-1.5% agarose gel and the size of each amplified fragment compared with a DNA molecular weight marker.

The amplified DNA was either loaded directly on a 1% agarose gel or first precipitated with ethanol and resuspended in a suitable volume to be loaded on a 1% agarose

gel. The DNA fragment corresponding to the right size band was then eluted and purified from gel, using the Qiagen Gel Extraction Kit, following the instructions of the manufacturer. The final volume of the DNA fragment was 30µl or 50µl of either water or 10mM Tris, pH 8.5.

Digestion of PCR fragments

The purified DNA corresponding to the amplified fragment was split into 2 aliquots and double-digested with:

NdeI/*XhoI* or *NheI/XhoI* for cloning into pET-21b+ and further expression of the protein as a C-terminus His-tag fusion

BamHI/*XhoI* or *EcoRI/XhoI* for cloning into pGEX-KG and further expression of the protein as a GST N-terminus fusion.

For ORF 76, *NheI/BamHI* for cloning into pTRC-HisA vector and further expression of the protein as N-terminus His-tag fusion.

Each purified DNA fragment was incubated (37°C for 3 hours to overnight) with 20 units of each restriction enzyme (New England Biolabs) in a either 30 or 40 µl final volume in the presence of the appropriate buffer. The digestion product was then purified using the QIAquick PCR purification kit, following the manufacturer's instructions, and eluted in a final volume of 30 (or 50) µl of either water or 10mM Tris-HCl, pH 8.5. The final DNA concentration was determined by 1% agarose gel electrophoresis in the presence of titrated molecular weight marker.

Digestion of the cloning vectors (pET22B, pGEX-KG and pTRC-His A)

10 µg plasmid was double-digested with 50 units of each restriction enzyme in 200 µl reaction volume in the presence of appropriate buffer by overnight incubation at 37°C. After loading the whole digestion on a 1% agarose gel, the band corresponding to the digested vector was purified from the gel using the Qiagen QIAquick Gel Extraction Kit and the DNA was eluted in 50 µl of 10 mM Tris-HCl, pH 8.5. The DNA concentration was evaluated by measuring OD_{260} of the sample, and adjusted to 50 µg/µl. 1 µl of plasmid was used for each cloning procedure.

Cloning

The fragments corresponding to each ORF, previously digested and purified, were ligated in both pET22b and pGEX-KG. In a final volume of 20 μl, a molar ratio of 3:1 fragment/vector was ligated using 0.5 μl of NEB T4 DNA ligase (400 units/μl), in the presence of the buffer supplied by the manufacturer. The reaction was incubated at room temperature for 3 hours. In some experiments, ligation was performed using the Boheringer "Rapid Ligation Kit", following the manufacturer's instructions.

In order to introduce the recombinant plasmid in a suitable strain, 100 μl *E. coli* DH5 competent cells were incubated with the ligase reaction solution for 40 minutes on ice, then at 37°C for 3 minutes, then, after adding 800 μl LB broth, again at 37°C for 20 minutes. The cells were then centrifuged at maximum speed in an Eppendorf microfuge and resuspended in approximately 200 μl of the supernatant. The suspension was then plated on LB ampicillin (100 mg/ml).

The screening of the recombinant clones was performed by growing 5 randomly-chosen colonies overnight at 37 °C in either 2 ml (pGEX or pTC clones) or 5ml (pET clones) LB broth + 100 μg/ml ampicillin. The cells were then pelletted and the DNA extracted using the Qiagen QIAprep Spin Miniprep Kit, following the manufacturer's instructions, to a final volume of 30 μl. 5 μl of each individual miniprep (approximately 1g) were digested with either *Nde*I/*Xho*I or *BamH*I/*Xho*I and the whole digestion loaded onto a 1-1.5% agarose gel (depending on the expected insert size), in parallel with the molecular weight marker (1Kb DNA Ladder, GIBCO). The screening of the positive clones was made on the base of the correct insert size.

Cloning

Certain ORFs may be cloned into the pGEX-HIS vector using *EcoR*I-*Pst*I, *EcoR*I-*Sal*I, or *Sal*I-*Pst*I cloning sites. After cloning, the recombinant plasmids may be introduced in the *E.*coli host W3110.

Expression

Each ORF cloned into the expression vector may then be transformed into the strain suitable for expression of the recombinant protein product. 1 μl of each construct was used to

transform 30 μl of *E.coli* BL21 (pGEX vector), *E.coli* TOP 10 (pTRC vector) or *E.coli* BL21-DE3 (pET vector), as described above. In the case of the pGEX-His vector, the same *E.coli* strain (W3110) was used for initial cloning and expression. Single recombinant colonies were inoculated into 2ml LB+Amp (100 μg/ml), incubated at 37°C overnight, then diluted 1:30 in 20 ml of LB+Amp (100 μg/ml) in 100 ml flasks, making sure that the OD_{600} ranged between 0.1 and 0.15. The flasks were incubated at 30°C into gyratory water bath shakers until OD indicated exponential growth suitable for induction of expression (0.4-0.8 OD for pET and pTRC vectors; 0.8-1 OD for pGEX and pGEX-His vectors). For the pET, pTRC and pGEX-His vectors, the protein expression was induced by addiction of 1mM IPTG, whereas in the case of pGEX system the final concentration of IPTG was 0.2 mM. After 3 hours incubation at 30°C, the final concentration of the sample was checked by OD. In order to check expression, 1ml of each sample was removed, centrifuged in a microfuge, the pellet resuspended in PBS, and analysed by 12% SDS-PAGE with Coomassie Blue staining. The whole sample was centrifuged at 6000g and the pellet resuspended in PBS for further use.

GST-fusion proteins large-scale purification.

A single colony was grown overnight at 37°C on LB+Amp agar plate. The bacteria were inoculated into 20 ml of LB+Amp liquid colture in a water bath shaker and grown overnight. Bacteria were diluted 1:30 into 600 ml of fresh medium and allowed to grow at the optimal temperature (20-37°C) to OD_{550} 0.8-1. Protein expression was induced with 0.2mM IPTG followed by three hours incubation. The culture was centrifuged at 8000 rpm at 4°C. The supernatant was discarded and the bacterial pellet was resuspended in 7.5 ml cold PBS. The cells were disrupted by sonication on ice for 30 sec at 40W using a Branson sonifier B-15, frozen and thawed two times and centrifuged again. The supernatant was collected and mixed with 150μl Glutatione-Sepharose 4B resin (Pharmacia) (previously washed with PBS) and incubated at room temperature for 30 minutes. The sample was centrifuged at 700g for 5 minutes at 4C. The resin was washed twice with 10 ml cold PBS for 10 minutes, resuspended in 1ml cold PBS, and loaded on a disposable column. The resin was washed twice with 2ml cold PBS until the flow-through reached OD_{280} of 0.02-0.06. The GST-fusion protein was eluted by addition of 700μl cold Glutathione elution buffer 10mM reduced glutathione, 50mM Tris-HCl) and fractions collected until the OD_{280} was 0.1.

21μl of each fraction were loaded on a 12% SDS gel using either Biorad SDS-PAGE Molecular weight standard broad range (M1) (200, 116.25, 97.4, 66.2, 45, 31, 21.5, 14.4, 6.5 kDa) or Amersham Rainbow Marker (M") (220, 66, 46, 30, 21.5, 14.3 kDa) as standards. As the MW of GST is 26kDa, this value must be added to the MW of each GST-fusion protein.

His-fusion soluble proteins large-scale purification.

A single colony was grown overnight at 37°C on a LB + Amp agar plate. The bacteria were inoculated into 20ml of LB+Amp liquid culture and incubated overnight in a water bath shaker. Bacteria were diluted 1:30 into 600ml fresh medium and allowed to grow at the optimal temperature (20-37°C) to OD_{550} 0.6-0.8. Protein expression was induced by addition of 1 mM IPTG and the culture further incubated for three hours. The culture was centrifuged at 8000 rpm at 4°C, the supernatant was discarded and the bacterial pellet was resuspended in 7.5ml cold 10mM imidazole buffer (300 mM NaCl, 50 mM phosphate buffer, 10 mM imidazole, pH 8). The cells were disrupted by sonication on ice for 30 sec at 40W using a Branson sonifier B-15, frozen and thawed two times and centrifuged again. The supernatant was collected and mixed with 150μl Ni^{2+}-resin (Pharmacia) (previously washed with 10mM imidazole buffer) and incubated at room temperature with gentle agitation for 30 minutes. The sample was centrifuged at 700g for 5 minutes at 4°C. The resin was washed twice with 10 ml cold 10mM imidazole buffer for 10 minutes, resuspended in 1ml cold 10mM imidazole buffer and loaded on a disposable column. The resin was washed at 4°C with 2ml cold 10mM imidazole buffer until the flow-through reached the $O.D_{280}$ of 0.02-0.06. The resin was washed with 2ml cold 20mM imidazole buffer (300 mM NaCl, 50 mM phosphate buffer, 20 mM imidazole, pH 8) until the flow-through reached the $O.D_{280}$ of 0.02-0.06. The His-fusion protein was eluted by addition of 700μl cold 250mM imidazole buffer (300 mM NaCl, 50 mM phosphate buffer, 250 mM imidazole, pH 8) and fractions collected until the $O.D_{280}$ was 0.1. 21μl of each fraction were loaded on a 12% SDS gel.

His-fusion insoluble proteins large-scale purification.

A single colony was grown overnight at 37 °C on a LB + Amp agar plate. The bacteria were inoculated into 20 ml of LB+Amp liquid culture in a water bath shaker and grown overnight. Bacteria were diluted 1:30 into 600ml fresh medium and let to grow at the

optimal temperature (37°C) to $O.D_{550}$ 0.6-0.8. Protein expression was induced by addition of 1 mM IPTG and the culture further incubated for three hours. The culture was centrifuged at 8000rpm at 4°C. The supernatant was discarded and the bacterial pellet was resuspended in 7.5 ml buffer B (urea 8M, 10mM Tris-HCl, 100mM phosphate buffer, pH 8.8). The cells were disrupted by sonication on ice for 30 sec at 40W using a Branson sonifier B-15, frozen and thawed twice and centrifuged again. The supernatant was stored at -20°C, while the pellets were resuspended in 2 ml guanidine buffer (6M guanidine hydrochloride, 100mM phosphate buffer, 10 mM Tris-HCl, pH 7.5) and treated in a homogenizer for 10 cycles. The product was centrifuged at 13000 rpm for 40 minutes. The supernatant was mixed with 150µl Ni^{2+}-resin (Pharmacia) (previously washed with buffer B) and incubated at room temperature with gentle agitation for 30 minutes. The sample was centrifuged at 700 g for 5 minutes at 4°C. The resin was washed twice with 10 ml buffer B for 10 minutes, resuspended in 1ml buffer B, and loaded on a disposable column. The resin was washed at room temperature with 2ml buffer B until the flow-through reached the OD_{280} of 0.02-0.06. The resin was washed with 2ml buffer C (urea 8M, 10mM Tris-HCl, 100mM phosphate buffer, pH 6.3) until the flow-through reached the $O.D_{280}$ of 0.02-0.06. The His-fusion protein was eluted by addition of 700µl elution buffer (urea 8M, 10mM Tris-HCl, 100mM phosphate buffer, pH 4.5) and fractions collected until the OD_{280} was 0.1. 21µl of each fraction were loaded on a 12% SDS gel.

His-fusion proteins renaturation

10% glycerol was added to the denatured proteins. The proteins were then diluted to 20µg/ml using dialysis buffer I (10% glycerol, 0.5M arginine, 50mM phosphate buffer, 5mM reduced glutathione, 0.5mM oxidised glutathione, 2M urea, pH 8.8) and dialysed against the same buffer at 4°C for 12-14 hours. The protein was further dialysed against dialysis buffer II (10% glycerol, 0.5M arginine, 50mM phosphate buffer, 5mM reduced glutathione, 0.5mM oxidised glutathione, pH 8.8) for 12-14 hours at 4°C. Protein concentration was evaluated using the formula:

$$\text{Protein (mg/ml)} = (1.55 \times OD_{280}) - (0.76 \times OD_{260})$$

Mice immunisations

20μg of each purified protein were used to immunise mice intraperitoneally. In the case of some ORFs, Balb-C mice were immunised with $Al(OH)_3$ as adjuvant on days 1, 21 and 42, and immune response was monitored in samples taken on day 56. For other ORFs, CD1 mice could be immunised using the same protocol. For other ORFs, CD1 mice could be immunised using Freund's adjuvant, and the same immunisation protocol was used, except that the immune response was measured on day 42, rather than 56. Similarly, for still other ORFs, CD1 mice could be immunised with Freund's adjuvant, but the immune response was measured on day 49.

ELISA assay (sera analysis)

The acapsulated MenB M7 strain was plated on chocolate agar plates and incubated overnight at 37°C. Bacterial colonies were collected from the agar plates using a sterile dracon swab and inoculated into 7ml of Mueller-Hinton Broth (Difco) containing 0.25% Glucose. Bacterial growth was monitored every 30 minutes by following OD_{620}. The bacteria were let to grow until the OD reached the value of 0.3-0.4. The culture was centrifuged for 10 minutes at 10000 rpm. The supernatant was discarded and bacteria were washed once with PBS, resuspended in PBS containing 0.025% formaldehyde, and incubated for 2 hours at room temperature and then overnight at 4°C with stirring. 100μl bacterial cells were added to each well of a 96 well Greiner plate and incubated overnight at 4°C. The wells were then washed three times with PBT washing buffer (0.1% Tween-20 in PBS). 200 μl of saturation buffer (2.7% Polyvinylpyrrolidone 10 in water) was added to each well and the plates incubated for 2 hours at 37°C. Wells were washed three times with PBT. 200 μl of diluted sera (Dilution buffer: 1% BSA, 0.1% Tween-20, 0.1% NaN_3 in PBS) were added to each well and the plates incubated for 90 minutes at 37°C. Wells were washed three times with PBT. 100 μl of HRP-conjugated rabbit anti-mouse (Dako) serum diluted 1:2000 in dilution buffer were added to each well and the plates were incubated for 90 minutes at 37°C. Wells were washed three times with PBT buffer. 100 μl of substrate buffer for HRP (25 ml of citrate buffer pH5, 10 mg of O-phenildiamine and 10 μl of H_2O) were added to each well and the plates were left at room temperature for 20 minutes. 100 μl H_2SO_4 was added to each

well and OD_{490} was followed. The ELISA was considered positive when OD490 was 2.5 times the respective pre-immune sera.

FACScan bacteria Binding Assay procedure.

The acapsulated MenB M7 strain was plated on chocolate agar plates and incubated overnight at 37°C. Bacterial colonies were collected from the agar plates using a sterile dracon swab and inoculated into 4 tubes containing 8ml each Mueller-Hinton Broth (Difco) containing 0.25% glucose. Bacterial growth was monitored every 30 minutes by following OD_{620}. The bacteria were let to grow until the OD reached the value of 0.35-0.5. The culture was centrifuged for 10 minutes at 4000 rpm. The supernatant was discarded and the pellet was resuspended in blocking buffer (1% BSA, 0.4% NaN_3) and centrifuged for 5 minutes at 4000 rpm. Cells were resuspended in blocking buffer to reach OD_{620} of 0.07. 100μl bacterial cells were added to each well of a Costar 96 well plate. 100μl of diluted (1:200) sera (in blocking buffer) were added to each well and plates incubated for 2 hours at 4°C. Cells were centrifuged for 5 minutes at 4000 rpm, the supernatant aspirated and cells washed by addition of 200μl/well of blocking buffer in each well. 100μl of R-Phicoerytrin conjugated $F(ab)_2$ goat anti-mouse, diluted 1:100, was added to each well and plates incubated for 1 hour at 4°C. Cells were spun down by centrifugation at 4000rpm for 5 minutes and washed by addition of 200μl/well of blocking buffer. The supernatant was aspirated and cells resuspended in 200μl/well of PBS, 0.25% formaldehyde. Samples were transferred to FACScan tubes and read. The condition for FACScan setting were: FL1 on, FL2 and FL3 off; FSC-H Treshold:92; FSC PMT Voltage: E 02; SSC PMT: 474; Amp. Gains 7.1; FL-2 PMT: 539. Compensation values: 0.

OMV preparations

Bacteria were grown overnight on 5 GC plates, harvested with a loop and resuspended in 10 ml 20mM Tris-HCl. Heat inactivation was performed at 56°C for 30 minutes and the bacteria disrupted by sonication for 10' on ice (50% duty cycle, 50% output). Unbroken cells were removed by centrifugation at 5000*g* for 10 minutes and the total cell envelope fraction recovered by centrifugation at 50000*g* at 4°C for 75 minutes. To extract cytoplasmic membrane proteins from the crude outer membranes, the whole fraction was resuspended in

2% sarkosyl (Sigma) and incubated at room temperature for 20 minutes. The suspension was centrifuged at 10000g for 10 minutes to remove aggregates, and the supernatant further ultracentrifuged at 50000g for 75 minutes to pellet the outer membranes. The outer membranes were resuspended in 10mM Tris-HCl, pH8 and the protein concentration measured by the Bio-Rad Protein assay, using BSA as a standard.

Whole Extracts preparation

Bacteria were grown overnight on a GC plate, harvested with a loop and resuspended in 1ml of 20mM Tris-HCl. Heat inactivation was performed at 56°C for 30' minutes.

Western blotting

Purified proteins (500ng/lane), outer membrane vesicles (5 μg) and total cell extracts (25μg) derived from MenB strain 2996 were loaded on 15% SDS-PAGE and transferred to a nitrocellulose membrane. The transfer was performed for 2 hours at 150mA at 4°C, in transferring buffer (0.3 % Tris base, 1.44 % glycine, 20% methanol). The membrane was saturated by overnight incubation at 4°C in saturation buffer (10% skimmed milk, 0.1% Triton X100 in PBS). The membrane was washed twice with washing buffer (3% skimmed milk, 0.1% Triton X100 in PBS) and incubated for 2 hours at 37°C with 1:200 mice sera diluted in washing buffer. The membrane was washed twice and incubated for 90 minutes with a 1:2000 dilution of horseradish peroxidase labeled anti-mouse Ig. The membrane was washed twice with 0.1% Triton X100 in PBS and developed with the Opti-4CN Substrate Kit (Bio-Rad). The reaction was stopped by adding water.

Bactericidal assay

MC58 strain was grown overnight at 37°C on chocolate agar plates. 5-7 colonies were collected and used to inoculate 7ml Mueller-Hinton broth. The suspension was incubated at 37°C on a nutator and let to grow until OD_{620} was in between 0.5-0.8. The culture was aliquoted into sterile 1.5ml Eppendorf tubes and centrifuged for 20 minutes at maximum speed in a microfuge. The pellet was washed once in Gey's buffer (Gibco) and resuspended in the same buffer to an OD_{620} of 0.5, diluted 1:20000 in Gey's buffer and stored at 25°C.

50µl of Gey's buffer/1% BSA was added to each well of a 96-well tissue culture plate. 25µl of diluted (1:100) mice sera (dilution buffer: Gey's buffer/0.2% BSA) were added to each well and the plate incubated at 4°C. 25µl of the previously described bacterial suspension were added to each well. 25µl of either heat-inactivated (56°C waterbath for 30 minutes) or normal baby rabbit complement were added to each well. Immediately after the addition of the baby rabbit complement, 22µl of each sample/well were plated on Mueller-Hinton agar plates (time 0). The 96-well plate was incubated for 1 hour at 37°C with rotation and then 22µl of each sample/well were plated on Mueller-Hinton agar plates (time 1). After overnight incubation the colonies corresponding to time 0 and time 1h were counted.

The following DNA and amino acid sequences are identified by titles of the following form: [g, m, or a] [#].[seq or pep], where "g" means a sequence from *N. gonorrhoeae*, "m" means a sequence from *N. meningitidis B*, and "a" means a sequence from *N. meningitidis A*; "#" means the number of the sequence; "seq" means a DNA sequence, and "pep" means an amino acid sequence. For example, "g001.seq" refers to an *N. gonorrohoeae* DNA sequence, number 1. The presence of the suffix "-1" or "-2" to these sequences indicates an additional sequence found for the same ORF. Further, open reading frames are identified as ORF #, where "#" means the number of the ORF, corresponding to the number of the sequence which encodes the ORF, and the ORF designations may be suffixed with ".ng" or ".a", indicating that the ORF corresponds to a *N. gonorrhoeae* sequence or a *N. meningitidis A* sequence, respectively. Computer analysis was performed for the comparisons that follow between "g", "m", and "a" peptide sequences; and therein the "pep" suffix is implied where not expressly stated.

EXAMPLE 1

The following ORFs were predicted from the contig sequences and/or the full length sequence using the methods herein described.

Localization of the ORFs

ORF:	contig:
279	gnm4.seq

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 962>:

m279.seq

```
  1   ATAACGCGGA TTTGCGGCTG CTTGATTTCA ACGGTTTTCA GGGCTTCGGC
 51   AAGTTTGTCG GCGGCGGGTT TCATCAGGCT GCAATGGGAA GGTACGGACA
101   CGGGCAGCGG CAGGGCGCGT TTGGCACCGG CTTCTTTGGC GGCAGCCATG
151   GCGCGTCCGA CGGCGGCGGC GTTGCCTGCA ATCACGATTT GTCCGGGTGA
201   GTTGAAGTTG ACGGCTTCGA CCACTTCGCT TTGGGCGGCT TCGGCACAAA
251   TGGCTTTAAC CTGCTCATCT TCCAAGCCGA GAATCGCCGC CATTGCGCCC
301   ACGCCTTGCG GTACGGCGGA CTGCATCAGT TCGGCGCGCA GGCGCACGAG
351   TTTGACCGCG TCGGCAAAAT TCAATGCGCC GGCGGCAACG AGTGCGGTGT
401   ATTCGCCGAG GCTGTGTCCG GCAACGGCGG CAGGCGTTTT GCCGCCCCGCT
451   TCTAAATAG
```

This corresponds to the amino acid sequence <SEQ ID 963; ORF 279>:

m279.pep

```
  1   ITRICGCLIS TVFRASASLS AAGFIRLQWE GTDTGSGRAR LAPASLAAAM
 51   ARPTAAALPA ITICPGELKL TASTTSLWAA SAQMALTCSS SKPRIAAIAP
101   TPCGTADCIS SARRRTSLTA SAKFNAPAAT SAVYSPRLCP ATAAGVLPPA
151   SK*
```

The following partial DNA sequence was identified in *N.gonorrhoeae* <SEQ ID 964>:

g279.seq

```
  1   atgacgcgga tttgcggctg cttgatttca acggttttga gtgtttcggc
 51   aagtttgtcg gcggcgggtt tcatcaggct gcaatgggaa ggaacggata
101   ccggcagcgg cagggcgcgt ttggctccgg cttctttggc ggcagccatg
151   gtgcgtccga cggcggcggc gttgcctgca atcacgactt gtccgggcga
201   gttgaagttg acggcttcga ccacttcgcc ctgtgcggat tcggcacaaa
251   tctgcctgac ctgttcatct tccaaaccca aaatggccgc cattgcgcct
301   acgccttgcg gtacggcgga ctgcatcagt tcggcgcgca ggcggacgag
351   tttgacggca tcggcaaaat ccaatgcttc ggcggcgaca agcgcggtgt
401   attcgccgag gctgtgtccg gcaacggcgg caggcgtttt gccgcccact
451   tccaaatag
```

This corresponds to the amino acid sequence <SEQ ID 965; ORF 279.ng>:

g279.pep

```
  1   MTRICGCLIS TVLSVSASLS AAGFIRLQWE GTDTGSGRAR LAPASLAAAM
 51   VRPTAAALPA ITTCPGELKL TASTTSPCAD SAQICLTCSS SKPKMAAIAP
101   TPCGTADCIS SARRRTSLTA SAKSNASAAT SAVYSPRLCP ATAAGVLPPT
151   SK*
```

ORF 279 shows 89.5% identity over a 152 aa overlap with a predicted ORF (ORF 279.ng) from *N. gonorrhoeae:*

```
                        10        20        30        40        50        60
m279.pep        ITRICGCLISTVFRASASLSAAGFIRLQWEGTDTGSGRARLAPASLAAAMARPTAAALPA
                :|||||||||||: :|||||||||||||||||||||||||||||||||||:|||||||||
g279            MTRICGCLISTVLSVSASLSAAGFIRLQWEGTDTGSGRARLAPASLAAAMVRPTAAALPA
                        10        20        30        40        50        60

                        70        80        90       100       110       120
m279.pep        ITICPGELKLTASTTSLWAASAQMALTCSSSKPRIAAIAPTPCGTADCISSARRRTSLTA
                || |||||||||||||  | |||: ||||||||::|||||||||||||||||||||||||
g279            ITTCPGELKLTASTTSPCADSAQICLTCSSSKPKMAAIAPTPCGTADCISSARRRTSLTA
                        70        80        90       100       110       120

                       130       140       150
m279.pep        SAKFNAPAATSAVYSPRLCPATAAGVLPPASKX
                ||| || |||||||||||||||||||||||:|||
g279            SAKSNASAATSAVYSPRLCPATAAGVLPPTSKX
                       130       140       150
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 966>:

```
a279.seq
      1   ATGACNCNGA TTTGCGGCTG CTTGATTTCA ACGGTTTNNA GGGCTTCGGC
     51   GAGTTTGTCG GCGGCGGGTT TCATGAGGCT GCAATGGGAA GGTACNGACA
    101   CNGGCAGCGG CAGGGCGCGT TTGGCGCCGG CTTCTTTGGC GGCAAGCATA
    151   GCGCGCTCGA CGGCGGCGGC ATTGCCTGCA ATCACGACTT GTCCGGGCGA
    201   GTTGAAGTTG ACGGCTTCAA CCACTTCATC CTGTGCGGAT TCGGCGCAAA
    251   TTTGTTTTAC CTGTTCATCT TCCAAGCCGA GAATCGCCGC CATTGCGCCC
    301   ACGCCTTGCG GTACGGCGGA CTGCATCAGT TCGGCGCGCA NGCGCACGAG
    351   TTTGACCGCG TCGGCAAAAT CCAATGCGCC GGCGGCAACN AGTGCGGTGT
    401   ATTCGCCGAN GCTGTGTCCG GCAACGGCGG CAGGCGTTTT GCCGCCCGCT
    451   TCCGAATAG
```

This corresponds to the amino acid sequence <SEQ ID 967; ORF 279.a>:

```
a279.pep
      1   MTXICGCLIS TVXRASASLS AAGFMRLQWE GTDTGSGRAR LAPASLAASI
     51   ARSTAAALPA ITTCPGELKL TASTTSSCAD SAQICFTCSS SKPRIAAIAP
    101   TPCGTADCIS SARXRTSLTA SAKSNAPAAT SAVYSPXLCP ATAAGVLPPA
    151   SE*
```

m279/a279 ORFs 279 and 279.a showed a 88.2% identity in 152 aa overlap

```
                        10        20        30        40        50        60
m279.pep        ITRICGCLISTVFRASASISAAGFIRLQWEGTDTGSGRARLAPASLAAAMARPTAAALPA
                :| ||||||||| |||||||||||:|||||||||||||||||||||||::|| |||||||
a279            MTXICGCLISTVXRASASLSAAGFMRLQWEGTDTGSGRARLAPASLAASIARSTAAALPA
                        10        20        30        40        50        60

                        70        80        90       100       110       120
m279.pep        ITICFGELKLTASTTSLWAASAQMALTCSSSKPRIAAIAPTPCGTADCISSARRRTSLTA
                || |||||||||||||  | |||: :||||||||||||||||||||||||||| ||||||
a279            ITTCPGELKLTASTTSSCADSAQICFTCSSSKPRIAAIAPTPCGTADCISSARXRTSLTA
                        70        80        90       100       110       120

                       130       140       150
m279.pep        SAKFNAPAATSAVYSPRLCPATAAGVLPPASKX
                ||| |||||||||||| ||||||||||||||:|
a279            SAKSNAPAATSAVYSPXLCPATAAGVLPPASEX
                       130       140       150
```

519 and 519-1 gnm7.seq

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 968>:

```
m519.seq  (partial)
      1   ..TCCGTTATCG GGCGTATGGA GTTGGACAAA ACGTTTGAAG AACGCGACGA
     51     AATCAACAGT ACTGTTGTTG CGGCTTTGGA CGAGGCGGCC GGGgCTTgGG
    101     GTGTGAAGGT TTTGCGTTAT GAGATTAAAG ACTTGGTTCC GCCGCAAGAA
    151     ATCCTTCGCT CAATGCAGGC GCAAATTACT GCCGAACGCG AAAAACGCGC
    201     CCGTATCGCC GAATCCGAAG GTCGTAAAAT CGAACAAATC AACCTTGCCA
    251     GTGGTCAGCG CGAAGCCGAA ATCCAACAAT CCGAAGGCGA GGCTCAGGCT
    301     GCGGTCAATG CGTCAAATGC CGAGAAAATC GCCCGCATCA ACCGCGCCAA
    351     AGGTGAAGCG GAATCCTTGC GCCTTGTTGC CGAAGCCAAT GCCGAAGCCA
    401     TCCGTCAAAT TGCCGCCGCC CTTCAAACCC AAGGCGGTGC GGATGCGGTC
    451     AATCTGAAGA TTGCGGAACA ATACGTCGCT GCGTTCAACA ATCTTGCCAA
    501     AGAAAGCAAT ACGCTGATTA TGCCCGCCAA TGTTGCCGAC ATCGGCAGCC
    551     TGATTTCTGC CGGTATGAAA ATTATCGACA GCAGCAAAAC CGCCAAaTAA
```

This corresponds to the amino acid sequence <SEQ ID 969; ORF 519>:

```
m519.pep    (partial)
      1   ..SVIGRMELDK TFEERDEINS TVVAALDEAA GAWGVKVLRY EIKDLVPPQE
     51     ILRSMQAQIT AEREKRARIA ESEGRKIEQI NLASGQREAE IQQSEGEAQA
    101     AVNASNAEKI ARINRAKGEA ESLRLVAEAN AEAIRQIAAA LQTQGGADAV
    151     NLKIAEQYVA AFNNLAKESN TLIMPANVAD IGSLISAGMK IIDSSKTAK*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 970>:

```
g519.seq
      1  atggaatttt tcattatctt gttggcagcc gtcgccgttt tcggcttcaa
     51  atcctttgtc gtcatccccc agcaggaagt ccacgttgtc gaaaggctcg
    101  ggcgtttcca tcccgccctg acggccggtt tgaatatttt gattcccttt
    151  atcgaccgcg tcgcctaccg ccattcgctg aaagaaatcc ctttagacgt
    201  acccagccag gtctgcatca cgcgcgataa tacgcaattg actgttgacg
    251  gcatcatcta tttccaagta accgatccca aactcgcctc atacggttcg
    301  agcaactaca ttatggcaat tacccagctt gcccaaacga cgctgcgttc
    351  cgttatcggg cgtatggcgt tggacaaaac gtttgaagaa cgcgacgaaa
    401  tcaacagtac cgtcgtctcc gccctcgatg aagccgccgg ggcttggggt
    451  gtgaaagtcc tccgttacga aatcaaggat ttggttccgc cgcaagaaat
    501  ccttcgcgca atgcaggcac aaattaccgc cgaacgcgaa aaacgcgccc
    551  gtattgcccga atccgaaggc cgtaaaatcg aacaaatcaa ccttgccagt
    601  ggtcagccgtc aagccgaaat ccaacaatcc gaaggcgagg ctcaggctgc
    651  ggtcaatgcg tccaatgccg agaaaatcgc ccgcatcaac cgcgccaaag
    701  gcgaagccga atccctgcgc cttgttgccg aagccaatgc cgaagccaac
    751  cgtcaaattg ccgccgccct tcaaacccaa agcggggcgg atgcggtcaa
    801  tctgaagatt gcgggacaat acgttaccgc gttcaaaaat cttgccaaag
    851  aagacaatac gcggattaag cccgccaagg ttgccgaaat cgggaaccct
    901  aattttcggc ggcatgaaaa attttcgcca gaagcaaaaa cggccaaata
    951  a
```

This corresponds to the amino acid sequence <SEQ ID 971; ORF 519.ng>:

```
g519.pep
      1  MEFFIILLAA VAVFGFKSFV VIPQQEVHVV ERLGRFHRAL TAGLNILIPF
     51  IDRVAYRHSL KEIPLDVPSQ VCITRDNTQL TVDGIIYFQV TDPKLASYGS
    101  SNYIMAITQL AQTTLRSVIG RMELDKTFEE RDEINSTVVS ALDEAAGAWG
    151  VKVLRYEIKD LVPPQEILRA MQAQITAERE KRARIAESEG RKIEQINLAS
    201  GQREAEIQQS EGEAQAAVNA SNAEKIARIN RAKGEAESLR LVAEANAEAN
    251  RQIAAALQTQ SGADAVNLKI AGQYVTAFKN LAKEDNTRIK PAKVAEIGNP
    301  NFRRHEKFSP EAKTAK*
```

ORF 519 shows 87.5% identity over a 200 aa overlap with a predicted ORF (ORF 519.ng) from *N. gonorrhoeae:*

```
m519/g519

                                                    10        20        30
m519.pep                                    SVIGRMELDKTFEERDEINSTVVAALDEAA
                                            |||||||||||||||||||||||:||||||
g519          YFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIGRMELDKTFEERDEINSTVVSALDEAA
                 90       100       110       120       130       140

                      40        50        60        70        80        90
m519.pep      GAWGVKVLRYEIKDLVPPQEILRSMQAQITAEREKRARIAESEGRKIEQINLASGQREAE
              |||||||||||||||||||||||:||||||||||||||||||||||||||||||||||||
g519          GAWGVKVLRYEIKDLVPPQEILRAMQAQITAEREKRARIAESEGRKIEQINLASGQREAE
                150       160       170       180       190       200

                     100       110       120       130       140       150
m519.pep      IQQSEGEAQAAVNASNAEKIARINRAKGEAESLRLVAEANAEAIRQIAAALQTQGGADAV
```

```
              |||||:||||||||||:|||||||||||||||||||||||||| ||||||||||:|||||
g519          IQQSEGEAQAAVNASNAEKIARINRAKGEAESLRLVAEANAEANRQIAAALQTQSGADAV
                210       220       230       240       250       260

                    160       170       180       190       200
m519.pep      NLKIAFQYVAAFNNLAKESNTLIMFANVADIGSL-ISAGMKIIDSSKTAK
              ||||| |||:||:|||||:|| | ||:||:||:  :     |:    :||||
g519          NLKIAGQYVTAFKNLAKEDNTRIKPAKVAEIGNPNFRRHEKFSPEAKTAK
                270       280       290       300       310
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 972>:

```
a519.seq
       1  ATGGAATTTT TCATTATCTT GCTGGCAGCC GTCGTTGTTT TCGGCTTCAA
      51  ATCCTTTGTT GTCATCCCAC AGCAGGAAGT CCACGTTGTC GAAAGGCTCG
     101  GGCGTTTCCA TCGCGCCCTG ACGGCCGGTT TGAATATTTT GATTCCCTTT
     151  ATCGACCGCG TCGCCTACCG CCATTCGCTG AAAGAAATCC CTTTAGACGT
     201  ACCCAGCCAG GTCTGCATCA CGCGCGACAA TACGCAGCTG ACTGTTGACG
     251  GTATCATCTA TTTCCAAGTA ACCGACCCCA AACTCGCCTC ATACGGTTCG
     301  AGCAACTACA TTATGGCGAT TACCCAGCTT GCCCAAACGA CGCTGCGTTC
     351  CGTTATCGGG CGTATGGAAT TGGACAAAAC GTTTGAAGAA CGCGACGAAA
     401  TCAACAGCAC CGTCGTCTCC GCCCTCGATG AAGCCGCCGG AGCTTGGGGT
     451  GTGAAGGTTT TGCGTTATGA GATTAAAGAC TTGGTTCCGC CGCAAGAAAT
     501  CCTTCGCTCA ATGCAGGCGC AAATTACTGC TGAACGCGAA AAACGCGCCC
     551  GTATCGCCGA ATCCGAAGGT CGTAAAATCG AACAAATCAA CCTTGCCAGT
     601  GGTCAGCGCG AAGCCGAAAT CCAACAATCC GAAGGCGAGG CTCAGGCTGC
     651  GGTCAATGCG TCAAATGCCG AGAAAATCGC CCGCATCAAC CGCGCCAAAG
     701  GTGAAGCGGA ATCCTTGCGC CTTGTTGCCG AAGCCAATGC CGAAGCCATC
     751  CGTCAAATTG CCGCCGCCCT TCAAACCCAA GGCGGTGCGG ATGCGGTCAA
     801  TCTGAAGATT GCGGAACAAT ACGTCGCCGC GTTCAACAAT CTTGCCAAAG
     851  AAAGCAATAC GCTGATTATG CCCGCCAATG TTGCCGACAT CGGCAGCCTG
     901  ATTTCTGCCG GTATGAAAAT TATCGACAGC AGCAAAACCG CCAAATAA
```

This corresponds to the amino acid sequence <SEQ ID 973; ORF 519.a>:

```
a519.pep
       1  MEFFIILLAA VVVFGFKSFV VIPQQEVHVV ERLGRFHRAL TAGLNILIPF
      51  IDRVAYRHSL KLIFLDVPSQ VCITRDNTQL TVDGIIYFQV TDPKLASYGS
     101  SNYIMAITQL AQTTLRSVIG RMELDKTFEE RDEINSTVVS ALDEAAGAWG
     151  VKVLRYEIKD LVPPQEILRS MQAQITAERE KRARIAESEG RKIEQINLAS
     201  GQREAEIQQS EGEAQAAVNA SNAEKIARIN RAKGEAESLR LVAEANAEAI
     251  RQIAAALQTQ GGADAVNLKI AEQYVAAFNN LAKESNTLIM PANVADIGSL
     301  ISAGMKIIDS SKTAK*
```

```
m519/a519     ORFs 519 and 519.a showed a 99.5% identity in 199 aa overlap

                                                    10        20        30
m519.pep                                  SVIGRMELDKTFEERDEINSTVVAALDEAA
                                          ||||||||||||||||||||||||:|||||
a519          YFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIGRMELDKTFEERDEINSTVVSALDEAA
                 90       100       110       120       130       140

                      40        50        60        70        80        90
m519.pep      GAWGVKVLRYEIKDLVPPQEILRSMQAQITAEREKRARIAESEGRKIEQINLASGQREAE
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a519          GAWGVKVLRYEIKDLVPPQEILRSMQAQITAEREKRARIAESEGRKIEQINLASGQREAE
                150       160       170       180       190       200

                     100       110       120       130       140       150
m519.pep      IQQSEGEAQAAVNASNAEKIARINRAKGEAESLRLVAEANAEAIRQIAAALQTQGGADAV
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a519          IQQSEGEAQAAVNASNAEKIARINRAKGEAESLRLVAEANAEAIRQIAAALQTQGGADAV
                210       220       230       240       250       260
```

```
                        160       170       180       190       200
m519.pep        NLKIAEQYVAAFNNLAKESNTLIMPANVADIGSLISAGMKIIDSSKTAKX
                ||||||||||||||||||||||||||||||||||||||||||||||||||
a519            NLKIAEQYVAAFNNLAKESNTLIMPANVADIGSLISAGMKIIDSSKTAKX
                  270       280       290       300       310
```

Further work revealed the following DNA sequence identified in *N. meningitidis* <SEQ ID 974>:

```
m519-1.seq
      1  ATGGAATTTT TCATTATCTT GTTGGTAGCC GTCGCCGTTT TCGGTTTCAA
     51  ATCCTTTGTT GTCATCCCAC AACAGGAAGT CCACGTTGTC GAAAGGCTGG
    101  GGCGTTTCCA TCGCGCCCTG ACGGcCGGTT TGAATATTTT GATTCCCTTT
    151  ATCGACCGCG TCGCCTACCG CCATTCGCTG AAAGAAATCC CTTTAGACGT
    201  ACCCAGCCAG GTCTGCATCA CGCGCGACAA TACGCAGCTG ACTGTTGACG
    251  GCATCATCTA TTTCCAAGTA ACCGACCCCA AACTCGCCTC ATACGGTTCG
    301  AGCAACTACA TTATGGCGAT TACCCAGCTT GCCCAAACGA CGCTGCGTTC
    351  CGTTATCGGG CGTATGGAGT TGGACAAAAC GTTTGAAGAA CGCGACGAAA
    401  TCAACAGTAC TGTTGTTGCG GCTTTGGACG AGGCGGCCGG GGCTTGGGGT
    451  GTGAAGGTTT TGCGTTATGA GATTAAAGAC TTGGTTCCGC CGCAAGAAAT
    501  CCTTCGCTCA ATGCAGGCGC AAATTACTGC CGAACGCGAA AAACGCGCCC
    551  GTATCGCCGA ATCCGAAGGT CGTAAAATCG AACAAATCAA CCTTGCCAGT
    601  GGTCAGCGCG AAGCCGAAAT CCAACAATCC GAAGGCGAGG CTCAGGCTGC
    651  GGTCAATGCG TCAAATGCCG AGAAAATCGC CCGCATCAAC CGCGCCAAAG
    701  GTGAAGCGGA ATCCTTGCGC CTTGTTGCCG AAGCCAATGC CGAAGCCATC
    751  CGTCAAATTG CCGCCGCCCT TCAAACCCAA GGCGGTGCGG ATGCGGTCAA
    801  TCTGAAGATT GCGGAACAAT ACGTCGCTGC GTTCAACAAT CTTGCCAAAG
    851  AAAGCAATAC GCTGATTATG CCCGCCAATG TTGCCGACAT CGGCAGCCTG
    901  ATTTCTGCCG GTATGAAAAT TATCGACAGC AGCAAAACCG CCAAATAA
```

This corresponds to the amino acid sequence <SEQ ID 975; ORF 519-1>:

```
m519-1.
      1  MEFFIILLVA VAVFGFKSFV VIPQQEVHVV ERLGRFHRAL TAGLNILIPF
     51  IDRVAYRHSL KEIPLDVPSQ VCITRDNTQL TVDGIIYFQV TDPKLASYGS
    101  SNYIMAITQL AQTTLRSVIG RMELDKTFEE RDEINSTVVA ALDEAAGAWG
    151  VKVLRYEIKD LVPPQEILRS MQAQITAERE KRARIAESEG RKIEQINLAS
    201  GQREAEIQQS EGEAQAAVNA SNAEKIARIN RAKGEAESLR LVAEANAEAI
    251  RQIAAALQTQ GGADAVNLKI AEQYVAAFNN LAKESNTLIM PANVADIGSL
    301  ISAGMKIIDS SKTAK*
```

The following DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 976>:

```
g519-1.seq
      1  ATGGAATTTT TCATTATCTT GTTGGCAGCC GTCGCCGTTT TCGGCTTCAA
     51  ATCCTTTGTC GTCATCCCCC AGCAGGAAGT CCACGTTGTC GAAAGGCTCG
    101  GGCGTTTCCA TCGCGCCCTG ACGGCCGGTT TGAATATTTT GATTCCCTTT
    151  ATCGACCGCG TCGCCTACCG CCATTCGCTG AAAGAAATCC CTTTAGACGT
    201  ACCCAGCCAG GTCTGCATCA CGCGCGATAA TACGCAATTG ACTGTTGACG
    251  GCATCATCTA TTTCCAAGTA ACCGATCCCA AACTCGCCTC ATACGGTTCG
    301  AGCAACTACA TTATGGCAAT TACCCAGCTT GCCCAAACGA CGCTGCGTTC
    351  CGTTATCGGG CGTATGGAGT TGGACAAAAC GTTTGAAGAA CGCGACGAAA
    401  TCAACAGTAC CGTCGTCTCC GCCCTCGATG AAGCCGCCGG GGCTTGGGGT
    451  GTGAAAGTCC TCCGTTACGA AATCAAGGAT TTGGTTCCGC CGCAAGAAAT
    501  CCTTCGCGCA ATGCAGGCAC AAATTACCGC CGAACGCGAA AAACGCGCCC
    551  GTATTGCCGA ATCCGAAGGC CGTAAAATCG AACAAATCAA CCTTGCCAGT
    601  GGTCAGCGTG AAGCCGAAAT CCAACAATCC GAAGGCGAGG CTCAGGCTGC
    651  GGTCAATGCG TCCAATGCCG AGAAAATCGC CCGCATCAAC CGCGCCAAAG
    701  GCGAAGCGGA ATCCCTGCGC CTTGTTGCCG AAGCCAATGC CGAAGCCATC
    751  CGTCAAATTG CCGCCGCCCT TCAAACCCAA GGCGGGGCGG ATGCGGTCAA
    801  TCTGAAGATT GCGGAACAAT ACGTAGCCGC GTTCAACAAT CTTGCCAAAG
```

```
851  AAAGCAATAC GCTGATTATG CCCGCCAATG TTGCCGACAT CGGCAGCCTG
901  ATTTCTGCCG GCATGAAAAT TATCGACAGC AGCAAAACCG CCAAATAA
```

This corresponds to the amino acid sequence <SEQ ID 977; ORF 519-1.ng>:

```
g519-1.pep
  1  MEFFIILLAA VAVFGFKSFV VIPQQEVHVV ERLGRFHRAL TAGLNILIPF
 51  IDRVAYRHSL KEIPLDVPSQ VCITRDNTQL TVDGIIYFQV TDPKLASYGS
101  SNYIMAITQL AQTTLRSVIG RMELDKTFEE RDEINSTVVS ALDEAAGAWG
151  VKVLRYEIKD LVPPQEILRA MQAQITAERE KRARIAESEG RKIEQINLAS
201  GQREAEIQQS EGEAQAAVNA SNAEKIARIN RAKGEAESLR LVAEANAEAI
251  RQIAAALQTQ GGADAVNLKI AEQYVAAFNN LAKESNTLIM PANVADIGSL
301  ISAGMKIIDS SKTAK*
```

```
m519-1/g519-1 ORFs 519-1 and 519-1.ng showed a 99.0% identity in 315 aa
overlap

                      10        20        30        40        50        60
g519-1.pep   MEFFIILLAAVAVFGFKSFVVIPQQEVHVVERLGRFHRALTAGLNILIPFIDRVAYRHSL
             ||||||||:|||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1       MEFFIILLVAVAVFGFKSFVVIPQQEVHVVERLGRFHRALTAGLNILIPFIDRVAYRHSL
                      10        20        30        40        50        60

                      70        80        90       100       110       120
g519-1.pep   KEIPLDVPSQVCITRDNTQLTVDGIIYFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIG
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1       KEIPLDVPSQVCITRDNTQLTVDGIIYFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIG
                      70        80        90       100       110       120

                     130       140       150       160       170       180
g519-1.pep   RMELDKTFEERDEINSTVVSALDEAAGAWGVKVLRYEIKDLVPPQEILRAMQAQITAERE
             |||||||||||||||||||:||||||||||||||||||||||||||||||:|||||||||
m519-1       RMELDKTFEERDEINSTVVAALDEAAGAWGVKVLRYEIKDLVPPQEILRSMQAQITAERE
                     130       140       150       160       170       180

                     190       200       210       220       230       240
g519-1.pep   KRARIAESEGRKIEQINLASGQREAEIQQSEGEAQAAVNASNAEKIARINRAKGEAESLR
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1       KRARIAESEGRKIEQINLASGQREAEIQQSEGEAQAAVNASNAEKIARINRAKGEAESLR
                     190       200       210       220       230       240

                     250       260       270       280       290       300
g519-1.pep   LVAEANAEAIRQIAAALQTQGGADAVNLKIAEQYVAAFNNLAKESNTLIMPANVADIGSL
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1       LVAEANAEAIRQIAAALQTQGGADAVNLKIAEQYVAAFNNLAKESNTLIMPANVADIGSL
                     250       260       270       280       290       300

                     310
g519-1.pep   ISAGMKIIDSSKTAKX
             ||||||||||||||||
m519-1       ISAGMKIIDSSKTAKX
                     310
```

The following DNA sequence was identified in *N. meningitidis* <SEQ ID 978>:

```
a519-1.seq
  1  ATGGAATTTT TCATTATCTT GCTGGCAGCC GTCGTTGTTT TCGGCTTCAA
 51  ATCCTTTGTT GTCATCCCAC AGCAGGAAGT CCACGTTGTC GAAAGGCTCG
101  GGCGTTTCCA TCGCGCCCTG ACGGCCGGTT TGAATATTTT GATTCCCTTT
151  ATCGACCGCG TCGCCTACCG CCATTCGCTG AAAGAAATCC CTTTAGACGT
201  ACCCAGCCAG GTCTGCATCA CGCGCGACAA TACGCAGCTG ACTGTTGACG
251  GTATCATCTA TTTCCAAGTA ACCGACCCCA AACTCGCCTC ATACGGTTCG
301  AGCAACTACA TTATGGCGAT TACCCAGCTT GCCCAAACGA CGCTGCGTTC
```

```
351  CGTTATCGGG CGTATGGAAT TGGACAAAAC GTTTGAAGAA CGCGACGAAA
401  TCAACAGCAC CGTCGTCTCC GCCCTCGATG AAGCCGCCGG AGCTTGGGGT
451  GTGAAGGTTT TGCGTTATGA GATTAAAGAC TTGGTTCCGC CGCAAGAAAT
501  CCTTCGCTCA ATGCAGGCGC AAATTACTGC TGAACGCGAA AAACGCGCCC
551  GTATCGCCGA ATCCGAAGGT CGTAAAATCG AACAAATCAA CCTTGCCAGT
601  GGTCAGCGCG AAGCCGAAAT CCAACAATCC GAAGGCGAGG CTCAGGCTGC
651  GGTCAATGCG TCAAATGCCG AGAAAATCGC CCGCATCAAC CGCGCCAAAG
701  GTGAAGCGGA ATCCTTGCGC CTTGTTGCCG AAGCCAATGC CGAAGCCATC
751  CGTCAAATTG CCGCCGCCCT TCAAACCCAA GGCGGTGCGG ATGCGGTCAA
801  TCTGAAGATT GCGGAACAAT ACGTCGCCGC GTTCAACAAT CTTGCCAAAG
851  AAAGCAATAC GCTGATTATG CCCGCCAATG TTGCCGACAT CGGCAGCCTG
901  ATTTCTGCCG GTATGAAAAT TATCGACAGC AGCAAAACCG CCAAATAA
```

This corresponds to the amino acid sequence <SEQ ID 979; ORF 519-1.a>:

```
a519-1.pep.
  1  MEFFIILLAA VVVFGFKSFV VIPQQEVHVV ERLGRFHRAL TAGLNILIPF
 51  IDRVAYRHSL KEIPLDVPSQ VCITRDNTQL TVDGIIYFQV TDPKLASYGS
101  SNYIMAITQL AQTTLRSVIG RMELDKTFEE RDEINSTVVS ALDEAAGAWG
151  VKVLRYEIKD LVPPQEILRS MQAQITAERE KRARIAESEG RKIEQINLAS
201  GQREAEIQQS EGEAQAAVNA SNAEKIARIN RAKGEAESLR LVAEANAEAI
251  RQIAAALQTQ GGADAVNLKI AEQYVAAFNN LAKESNTLIM PANVADIGSL
301  ISAGMKIIDS SKTAK*
```

m519-1/a519-1 ORFs 519-1 and 519-1.a showed a 99.0% identity in 315 aa overlap

```
                    10        20        30        40        50        60
a519-1.pep  MEFFIILLAAVVVFGFKSFVVIPQQEVHVVERLGRFHRALTAGLNILIPFIDRVAYRHSL
            ||||||||:||:||||||||||||||||||||||||||||||||||||||||||||||||
m519-1      MEFFIILLVAVAVFGFKSFVVIPQQEVHVVERLGRFHRALTAGLNILIPFIDRVAYRHSL
                    10        20        30        40        50        60

                    70        80        90       100       110       120
a519-1.pep  KEIPLDVPSQVCITRDNTQLTVDGIIYFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIG
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1      KEIPLDVPSQVCITRDNTQLTVDGIIYFQVTDPKLASYGSSNYIMAITQLAQTTLRSVIG
                    70        80        90       100       110       120

                   130       140       150       160       170       180
a519-1.pep  RMELDKTFEERDEINSTVVSALDEAAGAWGVKVLRYEIKDLVPPQEILRSMQAQITAERE
            |||||||||||||||||||:||||||||||||||||||||||||||||||||||||||||
m519-1      RMELDKTFEERDEINSTVVAALDEAAGAWGVKVLRYEIKDLVPPQEILRSMQAQITAERE
                   130       140       150       160       170       180

                   190       200       210       220       230       240
a519-1.pep  KRARIAESEGRKIEQINLASGQREAEIQQSEGEAQAAVNASNAEKIARINRAKGEAESLR
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1      KRARIAESEGRKIEQINLASGQREAEIQQSEGEAQAAVNASNAEKIARINRAKGEAESLR
                   190       200       210       220       230       240

                   250       260       270       280       290       300
a519-1.pep  LVAEANAEAIRQIAAALQTQGGADAVNLKIAEQYVAAFNNLAKESNTLIMPANVADIGSL
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m519-1      LVAEANAEAIRQIAAALQTQGGADAVNLKIAEQYVAAFNNLAKESNTLIMPANVADIGSL
                   250       260       270       280       290       300

                   310
a519-1.pep  ISAGMKIIDSSKTAKX
            ||||||||||||||||
m519-1      ISAGMKIIDSSKTAKX
                   310
```

576 and 576-1 gnm22.seq

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 980>:

```
m576.seq.. (partial)
      1  ..ATGCAGCAGG CAAGCTATGC GATGGGCGTG GACATCGGAC GCTCCCTGAA
     51    GCAAATGAAG GAACAGGGCG CGGAAATCGA TTTGAAAGTC TTTACCGAAG
    101    CCATGCAGGC AGTGTATGAC GGCAAAGAAA TCAAAATGAC CGAAGAGCAG
    151    GCTCAGGAAG TCATGATGAA ATTCCTTCAG GAACAACAGG CTAAAGCCGT
    201    AGAAAAACAC AAGGCGGACG CGAAGGCCAA TAAAGAAAAA GGCGAAGCCT
    251    TTCTGAAAGA AAATGCCGCC AAAGACGGCG TGAAGACCAC TGCTTCCGGC
    301    CTGCAATACA AAATCACCAA ACAGGGCGAA GGCAAACAGC CGACCAAAGA
    351    CGACATCGTT ACCGTGGAAT ACGAAGGCCG CCTGATTGAC GGTACGGTAT
    401    TCGACAGCAG CAAAGCCAAC GGCGGCCCGG TCACCTTCCC TTTGAGCCAA
    451    GTGATTCCGG GTTGGACCGA AGgCGTACAG CTTCTGAAAG AAGGCGGCGA
    501    AGCCACGTTC TACATCCCGT CCAACCTTGC CTACCGCGAA CAGGGTGCGG
    551    GCGACAAAAT CGGTCCGAAC GCCACTTTGG TATTTGATGT GAAACTGGTC
    601    AAAATCGGCG CACCCGAAAA CGCGCCCGCC AAGCAGCCGG CTCAAGTCGA
    651    CATCAAAAAA GTAAATTAA
```

This corresponds to the amino acid sequence <SEQ ID 981; ORF 576>:

```
m576.pep.. (partial)
      1  ..MQQASYAMGV DIGRSLKQMK EQGAEIDLKV FTEAMQAVYD GKEIKMTEEQ
     51    AQEVMMKFLQ EQQAKAVEKH KADAKANKEK GEAFLKENAA KDGVKTTASG
    101    LQYKITKQGE GKQPTKDDIV TVEYEGRLID GTVFDSSKAN GGPVTFPLSQ
    151    VIPGWTEGVQ LLKEGGEATF YIPSNLAYRE QGAGDKIGPN ATLVFDVKLV
    201    KIGAPENAPA KQPAQVDIKK VN*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 982>:

```
g576.seq..(partial)
      1  ..atggccgtgg acatcggacg ctccctgaaa caaatgaagc aacagggcgc
     51    ggaaatcgat ttgaaagtct ttaccgatgc catgcaggca gtgtatgacg
    101    gcaaagaaat caaaatgacc gaagagcagg cccaggaagt catgatgaaa
    151    ttcctgcagg agcagcaggc taaagccgta gaaaaacaca aggcggatgc
    201    gaaggccaac aaagaaaaag gcgaagcctt cctgaaggaa aatgccgccg
    251    aagacggcgt gaagaccact gcttccggtc tgcagtacaa aatcaccaaa
    301    cagggtgaag gcaaacagcc gacaaaagac gacatcgtta ccgtggaata
    351    cgaaggccgc ctgattgacg gtaccgtatt cgacagcagc aaagccaacg
    401    gcggcccggc caccttccct ttgagccaag tgattccggg ttggaccgaa
    451    ggcgtacggc ttctgaaaga aggcggcgaa gccacgttct acatcccgtc
    501    caaccttgcc taccgcgaac aggtgcggg cgaaaaaatc ggtccgaacg
    551    ccactttggt atttgacgtg aaactggtca aaatcggcgc acccgaaaac
    601    gcgcccgcca agcagccgga tcaagtcgac atcaaaaaag taaattaa
```

This corresponds to the amino acid sequence <SEQ ID 983; ORF 576.ng>:

```
g576.pep..(partial)
      1  ..MGVDIGRSLK QMKEQGAEID LKVFTDAMQA VYDGKEIKMT EEQAQEVMMK
     51    FLQEQQAKAV EKHKADAKAN KEKGEAFLKE NAAEDGVKTT ASGLQYKITK
    101    QGEGKQPTKD DIVTVEYEGR LIDGTVFDSS KANGGPATFP LSQVIPGWTE
    151    GVRLLKEGGE ATFYIPSNLA YREQGAGEKI GPNATLVFDV KLVKIGAPEN
    201    APAKQPDQVD IKKVN*
```

Computer analysis of this amino acid sequence gave the following results:

<u>Homology with a predicted ORF from *N. gonorrhoeae*</u>

```
m576/g576  97.2% identity in 215 aa overlap
```

```
                   10        20        30        40        50        60
m576.pep    MQQASYAMGVDIGRSLKQMKEQGAEIDLKVFTEAMQAVYDGKEIKMTEEQAQEVMMKFLQ
                     ||||||||||||||||||||||||:|||||||||||||||||||||||||||
c576                 MGVDIGRSLKQMKEQGAEIDLKVFTDAMQAVYDGKEIKMTEEQAQEVMMKFLQ
                              10        20        30        40        50

                   70        80        90       100       110       120
m576.pep    EQQAKAVEKHKADAKANKEKGEAFLKENAAKDGVKTTASGLQYKITKQGEGKQPTKDDIV
            ||||||||||||||||||||||||||||||:|||||||||||||||||||||||||||||
c576        EQQAKAVEKHKADAKANKEKGEAFLKENAAEDGVKTTASGLQYKITKQGEGKQPTKDDIV
                 60        70        80        90       100       110

                  130       140       150       160       170       180
m576.pep    TVEYEGRLIDGTVFDSSKANGGPVTFPLSQVIPGWTEGVQLLKEGGEATFYIPSNLAYRE
            |||||||||||||||||||||||:|||||||||||||||:||||||||||||||||||||
c576        TVEYEGRLIDGTVFDSSKANGGPATFPLSQVIPGWTEGVRLLKEGGEATFYIPSNLAYRE
                120       130       140       150       160       170

                  190       200       210       220
m576.pep    QGAGDKIGPNATLVFDVKLVKIGAPENAPAKQPAQVDIKKVNX
            ||||:|||||||||||||||||||||||||||| |||||||||
c576        QGAGEKIGPNATLVFDVKLVKIGAPENAPAKQPDQVDIKKVNX
                180       190       200       210
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 984>:

```
a576.seq
      1  ATGAACACCA TTTTCAAAAT CAGCGCACTG ACCCTTTCCG CCGCTTTGGC
     51  ACTTTCCGCC TGCGGCAAAA AAGAAGCCGC CCCCGCATCT GCATCCGAAC
    101  CTGCCGCCGC TTCTTCCGCG CAGGGCGACA CCTCTTCGAT CGGCAGCACG
    151  ATGCAGCAGG CAAGCTATGC GATGGGCGTG GACATCGGAC GCTCCCTGAA
    201  GCAAATGAAG GAACAGGGCG CGGAAATCGA TTTGAAAGTC TTTACCGAAG
    251  CCATGCAGGC AGTGTATGAC GGCAAAGAAA TCAAAATGAC CGAAGAGCAG
    301  GCTCAGGAAG TCATGATGAA ATTCCTTCAG GAACAACAGG CTAAAGCCGT
    351  AGAAAAACAC AAGGCGGACG CGAAGGCCAA TAAAGAAAAA GGCGAAGCCT
    401  TTCTGAAAGA AAATGCCGCC AAAGACGGCG TGAAGACCAC TGCTTCCGGC
    451  CTGCAATACA AAATCACCAA ACAGGGCGAA GGCAAACAGC CGACCAAAGA
    501  CGACATCGTT ACCGTGGAAT ACGAAGGCCG CCTGATTGAC GGTACGGTAT
    551  TCGACAGCAG CAAAGCCAAC GGCGGCCCGG TCACCTTCCC TTTGAGCCAA
    601  GTGATTCTGG GTTGGACCGA AGGCGTACAG CTTCTGAAAG AAGGCGGCGA
    651  AGCCACGTTC TACATCCCGT CCAACCTTGC CTACCGCGAA CAGGGTGCGG
    701  GCGACAAAAT CGGCCCGAAC GCCACTTTGG TATTTGATGT GAAACTGGTC
    751  AAAATCGGCG CACCCGAAAA CGCGCCCGCC AAGCAGCCGG CTCAAGTCGA
    801  CATCAAAAAA GTAAATTAA
```

This corresponds to the amino acid sequence <SEQ ID 985; ORF 576.a>:

```
a576.pep
      1  MNTIFKISAL TLSAALALSA CGKKEAAPAS ASEPAAASSA QGDTSSIGST
     51  MQQASYAMGV DIGRSLKQMK EQGAEIDLKV FTEAMQAVYD GKEIKMTEEQ
    101  AQEVMMKFLQ EQQAKAVEKH KADAKANKEK GEAFLKENAA KDGVKTTASG
    151  LQYKITKQGE GKQPTKDDIV TVEYEGRLID GTVFDSSKAN GGPVTFPLSQ
    201  VILGWTEGVQ LLKEGGEATF YIPSNLAYRE QGAGDKIGPN ATLVFDVKLV
    251  KIGAPENAPA KQPAQVDIKK VN*
```

```
m576/a576     ORFs 576 and 576.a showed a 99.5% identity in 222 aa overlap

                                                     10        20        30
m576.pep                                   MQQASYAMGVDIGRSLKQMKEQGAEIDLKV
                                           ||||||||||||||||||||||||||||||
a576          CGKKEAAPASASEPAAASSAQGDTSSIGSTMQQASYAMGVDIGRSLKQMKEQGAEIDLKV
                    30        40        50        60        70        80
```

```
                40        50        60        70        80        90
m576.pep   FTEAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKHKADAKANKEKGEAFLKENAA
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a576       FTEAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKHKADAKANKEKGEAFLKENAA
                90       100       110       120       130       140

               100       110       120       130       140       150
m576.pep   KDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLIDGTVFDSSKANGGPVTFPLSQ
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a576       KDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLIDGTVFDSSKANGGPVTFPLSQ
               150       160       170       180       190       200

               160       170       180       190       200       210
m576.pep   VIPGWTEGVQLLKEGGEATFYIPSNLAYREQGAGDKIGPNATLVFDVKLVKIGAPENAPA
           || |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a576       VILGWTEGVQLLKEGGEATFYIPSNLAYREQGAGDKIGPNATLVFDVKLVKIGAPENAPA
               210       220       230       240       250       260

               220
m576.pep   KQPAQVDIKKVNX
           |||||||||||||
a576       KQPAQVDIKKVNX
               270
```

Further work revealed the following DNA sequence identified in *N. meningitidis* <SEQ ID 986>:

```
m576-1.seq
      1  ATGAACACCA TTTTCAAAAT CAGCGCACTG ACCCTTTCCG CCGCTTTGGC
     51  ACTTTCCGCC TGCGGCAAAA AAGAAGCCGC CCCCGCATCT GCATCCGAAC
    101  CTGCCGCCGC TTCTTCCGCG CAGGGCGACA CCTCTTCGAT CGGCAGCACG
    151  ATGCAGCAGG CAAGCTATGC GATGGGCGTG GACATCGGAC GCTCCCTGAA
    201  GCAAATGAAG GAACAGGGCG CGGAAATCGA TTTGAAAGTC TTTACCGAAG
    251  CCATGCAGGC AGTGTATGAC GGCAAAGAAA TCAAAATGAC CGAAGAGCAG
    301  GCTCAGGAAG TCATGATGAA ATTCCTTCAG GAACAACAGG CTAAAGCCGT
    351  AGAAAAACAC AAGGCGGACG CGAAGGCCAA TAAAGAAAAA GGCGAAGCCT
    401  TTCTGAAAGA AAATGCCGCC AAAGACGGCG TGAAGACCAC TGCTTCCGGC
    451  CTGCAATACA AAATCACCAA ACAGGGCGAA GGCAAACAGC CGACCAAAGA
    501  CGACATCGTT ACCGTGGAAT ACGAAGGCCG CCTGATTGAC GGTACGGTAT
    551  TCGACAGCAG CAAAGCCAAC GGCGGCCCGG TCACCTTCCC TTTGAGCCAA
    601  GTGATTCCGG GTTGGACCGA AGGCGTACAG CTTCTGAAAG AAGGCGGCGA
    651  AGCCACGTTC TACATCCCGT CCAACCTTGC CTACCGCGAA CAGGGTGCGG
    701  GCGACAAAAT CGGTCCGAAC GCCACTTTGG TATTTGATGT GAAACTGGTC
    751  AAAATCGGCG CACCCGAAAA CGCGCCCGCC AAGCAGCCGG CTCAAGTCGA
    801  CATCAAAAAA GTAAATTAA
```

This corresponds to the amino acid sequence <SEQ ID 987; ORF 576-1>:

```
m576-1.pep
      1  MNTIFKISAL TLSAALALSA CGKKEAAPAS ASEPAAASSA QGDTSSIGST
     51  MQQASYAMGV DIGRSLKQMK EQGAEIDLKV FTEAMQAVYD GKEIKMTEEQ
    101  AQEVMMKFLQ EQQAKAVEKH KADAKANKEK GEAFLKENAA KDGVKTTASG
    151  LQYKITKQGE GKQPTKDDIV TVEYEGRLID GTVFDSSKAN GGPVTFPLSQ
    201  VIPGWTEGVQ LLKEGGEATF YIPSNLAYRE QGAGDKIGPN ATLVFDVKLV
    251  KIGAPENAPA KQPAQVDIKK VN*
```

The following DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 988>:

```
g576-1.seq
      1  ATGAACACCA TTTTCAAAAT CAGCGCACTG ACCCTTTCCG CCGCTTTGGC
     51  ACTTTCCGCC TGCGGCAAAA AAGAAGCCGC CCCCGCATCT GCATCCGAAC
    101  CTGCCGCCGC TTCTGCCGCG CAGGGCGACA CCTCTTCAAT CGGCAGCACG
    151  ATGCAGCAGG CAAGCTATGC AATGGGCGTG GACATCGGAC GCTCCCTGAA
```

```
201  ACAAATGAAG GAACAGGGCG CGGAAATCGA TTTGAAAGTC TTTACCGATG
251  CCATGCAGGC AGTGTATGAC GGCAAAGAAA TCAAAATGAC CGAAGAGCAG
301  GCCCAGGAAG TGATGATGAA ATTCCTGCAG GAGCAGCAGG CTAAAGCCGT
351  AGAAAAACAC AAGGCGGATG CGAAGGCCAA CAAAGAAAAA GGCGAAGCCT
401  TCCTGAAGGA AAATGCCGCC AAAGACGGCG TGAAGACCAC TGCTTCCGGT
451  CTGCAGTACA AAATCACCAA ACAGGGTGAA GGCAAACAGC CGACAAAAGA
501  CGACATCGTT ACCGTGGAAT ACGAAGGCCG CCTGATTGAC GGTACCGTAT
551  TCGACAGCAG CAAAGCCAAC GGCGGCCCGG CCACCTTCCC TTTGAGCCAA
601  GTGATTCCGG GTTGGACCGA AGGCGTACGG CTTCTGAAAG AAGGCGGCGA
651  AGCCACGTTC TACATCCCGT CCAACCTTGC CTACCGCGAA CAGGGTGCGG
701  GCGAAAAAAT CGGTCCGAAC GCCACTTTGG TATTTGACGT GAAACTGGTC
751  AAAATCGGCG CACCCGAAAA CGCGCCCGCC AAGCAGCCGG ATCAAGTCGA
801  CATCAAAAAA GTAAATTAA
```

This corresponds to the amino acid sequence <SEQ ID 989; ORF 576-1.ng>:

```
g576-1.pep
  1  MNTIFKISAL TLSAALALSA CGKKEAAPAS ASEPAAASAA QGDTSSIGST
 51  MQQASYAMGV DIGRSLKQMK EQGAEIDLKV FTDAMQAVYD GKEIKMTEEQ
101  AQEVMMKFLQ EQQAKAVEKH KADAKANKEK GEAFLKENAA KDGVKTTASG
151  LQYKITKQGE GKQPTKDDIV TVEYEGRLID GTVFDSSKAN GGPATFPLSQ
201  VIPGWTEGVR LLKEGGEATF YIPSNLAYRE QGAGEKIGPN ATLVFDVKLV
251  KIGAPENAPA KQPDQVDIKK VN*
```

g576-1/m576-1 ORFs 576-1 and 576-1.ng showed a 97.8% identity in 272 aa overlap

```
                     10        20        30        40        50        60
g576-1.pep  MNTIFKISALTLSAALALSACGKKEAAPASASEPAAASAAQGDTSSIGSTMQQASYAMGV
            ||||||||||||||||||||||||||||||||||||||:|||||||||||||||||||||
m576-1      MNTIFKISALTLSAALALSACGKKEAAPASASEPAAASSAQGDTSSIGSTMQQASYAMGV
                     10        20        30        40        50        60

                     70        80        90       100       110       120
g576-1.pep  DIGRSLKQMKEQGAEIDLKVFTDAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKH
            |||||||||||||||||||||:||||||||||||||||||||||||||||||||||||||
m576-1      DIGRSLKQMKEQGAEIDLKVFTEAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKH
                     70        80        90       100       110       120

                    130       140       150       160       170       180
g576-1.pep  KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLID
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m576-1      KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLID
                    130       140       150       160       170       180

                    190       200       210       220       230       240
g576-1.pep  GTVFDSSKANGGPATFPLSQVIPGWTEGVRLLKEGGEATFYIPSNLAYREQGAGEKIGPN
            |||||||||||||:||||||||||||||:||||||||||||||||||||||||||:||||
m576-1      GTVFDSSKANGGPVTFPLSQVIPGWTEGVQLLKEGGEATFYIPSNLAYREQGAGDKIGPN
                    190       200       210       220       230       240

                    250       260       270
g576-1.pep  ATLVFDVKLVKIGAPENAPAKQPDQVDIKKVNX
            |||||||||||||||||||||| ||||||||||
m576-1      ATLVFDVKLVKIGAPENAPAKQPAQVDIKKVNX
                    250       260       270
```

The following DNA sequence was identified in *N. meningitidis* <SEQ ID 990>:

```
a576-1.seq
  1  ATGAACACCA TTTTCAAAAT CAGCGCACTG ACCCTTTCCG CCGCTTTGGC
 51  ACTTTCCGCC TGCGGCAAAA AAGAAGCCGC CCCCGCATCT GCATCCGAAC
101  CTGCCGCCGC TTCTTCCGCG CAGGGCGACA CCTCTTCGAT CGGCAGCACG
```

```
151  ATGCAGCAGG CAAGCTATGC GATGGGCGTG GACATCGGAC GCTCCCTGAA
201  GCAAATGAAG GAACAGGGCG CGGAAATCGA TTTGAAAGTC TTTACCGAAG
251  CCATGCAGGC AGTGTATGAC GGCAAAGAAA TCAAAATGAC CGAAGAGCAG
301  GCTCAGGAAG TCATGATGAA ATTCCTTCAG GAACAACAGG CTAAAGCCGT
351  AGAAAAACAC AAGGCGGACG CGAAGGCCAA TAAAGAAAAA GGCGAAGCCT
401  TTCTGAAAGA AAATGCCGCC AAAGACGGCG TGAAGACCAC TGCTTCCGGC
451  CTGCAATACA AAATCACCAA ACAGGGCGAA GGCAAACAGC CGACCAAAGA
501  CGACATCGTT ACCGTGGAAT ACGAAGGCCG CCTGATTGAC GGTACGGTAT
551  TCGACAGCAG CAAAGCCAAC GGCGGCCCGG TCACCTTCCC TTTGAGCCAA
601  GTGATTCTGG GTTGGACCGA AGGCGTACAG CTTCTGAAAG AAGGCGGCGA
651  AGCCACGTTC TACATCCCGT CCAACCTTGC CTACCGCGAA CAGGGTGCGG
701  GCGACAAAAT CGGCCCGAAC GCCACTTTGG TATTTGATGT GAAACTGGTC
751  AAAATCGGCG CACCCGAAAA CGCGCCCGCC AAGCAGCCGG CTCAAGTCGA
801  CATCAAAAAA GTAAATTAA
```

This corresponds to the amino acid sequence <SEQ ID 991; ORF 576-1.a>:

```
a576-1.pep
    1  MNTIFKISAL TLSAALALSA CGKKEAAPAS ASEPAAASSA QGDTSSIGST
   51  MQQASYAMGV DIGRSLKQMK EQGAEIDLKV FTEAMQAVYD GKEIKMTEEQ
  101  AQEVMMKFLQ EQQAKAVEKH KADAKANKEK GEAFLKENAA KDGVKTTASG
  151  LQYKITKQGE GKQPTKDDIV TVEYEGRLID GTVFDSSKAN GGPVTFPLSQ
  201  VILGWTEGVQ LLKEGGEATF YIPSNLAYRE QGAGDKIGPN ATLVFDVKLV
  251  KIGAPENAPA KQPAQVDIKK VN*
```

a576-1/m576-1 ORFs 576-1 and 576-1.a 99.6% identity in 272 aa overlap

```
                     10        20        30        40        50        60
a576-1.pep   MNTIFKISALTLSAALALSACGKKEAAPASASEPAAASSAQGDTSSIGSTMQQASYAMGV
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m576-1       MNTIFKISALTLSAALALSACGKKEAAPASASEPAAASSAQGDTSSIGSTMQQASYAMGV
                     10        20        30        40        50        60

                     70        80        90       100       110       120
a576-1.pep   DIGRSLKQMKEQGAEIDLKVFTEAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKH
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m576-1       DIGRSLKQMKEQGAEIDLKVFTEAMQAVYDGKEIKMTEEQAQEVMMKFLQEQQAKAVEKH
                     70        80        90       100       110       120

                    130       140       150       160       170       180
a576-1.pep   KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLID
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m576-1       KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKITKQGEGKQPTKDDIVTVEYEGRLID
                    130       140       150       160       170       180

                    190       200       210       220       230       240
a576-1.pep   GTVFDSSKANGGPVTFPLSQVILGWTEGVQLLKEGGEATFYIPSNLAYREQGAGDKIGPN
             |||||||||||||||||||||| |||||||||||||||||||||||||||||||||||||
m576-1       GTVFDSSKANGGPVTFPLSQVIPGWTEGVQLLKEGGEATFYIPSNLAYREQGAGDKIGPN
                    190       200       210       220       230       240

                    250       260       270
a576-1.pep   ATLVFDVKLVKIGAPENAPAKQPAQVDIKKVNX
             ||||||||||||||||||||||||||||||||
m576-1       ATLVFDVKLVKIGAPENAPAKQPAQVDIKKVNX
                    250       260       270
```

919 and 919-2 gnm43.seq

The following partial DNA sequence was identified in *N.meningitidis* <SEQ ID 992>:

```
m919.seq
   1  ATGAAAAAAT ACCTATTCCG CGCCGCCCTG TACGGCATCG CCGCCGCCAT
  51  CCTCGCCGCC TGCCAAAGCA AGAGCATCCA AACCTTTCCG CAACCCGACA
 101  CATCCGTCAT CAACGGCCCG GACCGGCCGG TCGGCATCCC CGACCCCGCC
 151  GGAACGACGG TCGGCGGCGG CGGGGCCGTC TATACCGTTG TACCGCACCT
 201  GTCCCTGCCC CACTGGGCGG CGCAGGATTT CGCCAAAAGC CTGCAATCCT
 251  TCCGCCTCGG CTGCGCCAAT TTGAAAAACC GCCAAGGCTG GCAGGATGTG
 301  TGCGCCCAAG CCTTTCAAAC CCCCGTCCAT TCCTTTCAGG CAAAACAGTT
 351  TTTTGAACGC TATTTCACGC CGTGGCAGGT TGCAGGCAAC GGAAGCCTTG
 401  CCGGTACGGT TACCGGCTAT TACGAACCGG TGCTGAAGGG CGACGACAGG
 451  CGGACGGCAC AAGCCCGCTT CCCGATTTAC GGTATTCCCG ACGATTTTAT
 501  CTCCGTCCCC CTGCCTGCCG GTTTGCGGAG CGGAAAAGCC CTTGTCCGCA
 551  TCAGGCAGAC GGGAAAAAAC AGCGGCACAA TCGACAATAC CGGCGGCACA
 601  CATACCGCCG ACCTCTCCcG ATTCCCCATC ACCGCGCGCA CAACAGCAAT
 651  CAAAGGCAGG TTTGAAGGAA GCCGCTTCCT CCCCTACCAC ACGCGCAACC
 701  AAATCAACGG CGGCGCGCTT GACGGCAAAG CCCCGATACT CGGTTACGCC
 751  GAAGACCCTG TCGAACTTTT TTTTATGCAC ATCCAAGGCT CGGGCCGTCT
 801  GAAAACCCCG TCCGGCAAAT ACATCCGCAT CGGCTATGCC GACAAAAACG
 851  AACATCCyTA CGTTTCCATC GGACGCTATA TGGCGGATAA GGGCTACCTC
 901  AAACTCGGAC AAACCTCCAT GCAGGGCATT AAGTCTTATA TGCGGCAAAA
 951  TCCGCAACGC CTCGCCGAAG TTTTGGGTCA AAACCCCAGC TATATCTTTT
1001  TCCGCGAGCT TGCCGGAAGC AGCAATGACG GCCCTGTCGG CGCACTGGGC
1051  ACGCCGCTGA TGGGGGAATA TGCCGGCGCA GTCGACCGGC ACTACATTAC
1101  CTTGGGTGCG CCCTTATTTG TCGCCACCGC CCATCCGGTT ACCCGCAAAG
1151  CCCTCAACCG CCTGATTATG GCGCAGGATA CCGGCAGCGC GATTAAAGGC
1201  GCGGTGCGCG TGGATTATTT TTGGGGATAC GGCGACGAAG CCGGCGAACT
1251  TGCCGGCAAA CAGAAAACCA CGGGATATGT CTGGCAGCTC CTACCCAACG
1301  GTATGAAGCC CGAATACCGc CCGTAA
```

This corresponds to the amino acid sequence <SEQ ID 993; ORF 919>:

```
m919.pep
   1  MKKYLFRAAL YGIAAAILAA CQSKSIQTFP QPDTSVINGP DRPVGIPDPA
  51  GTTVGGGGAV YTVVPHLSLP HWAAQDFAKS LQSFRLGCAN LKNRQGWQDV
 101  CAQAFQTPVH SFQAKQFFER YFTPWQVAGN GSLAGTVTGY YEPVLKGDDR
 151  RTAQARFPIY GIPDDFISVP LPAGLRSGKA LVRIRQTGKN SGTIDNTGGT
 201  HTADLSRFPI TARTTAIKGR FEGSRFLPYH TRNQINGGAL DGKAPILGYA
 251  EDPVELFFMH IQGSGRLKTP SGKYIRIGYA DKNEHPYVSI GRYMADKGYL
 301  KLGQTSMQGI KSYMRQNPQR LAEVLGQNPS YIFFRELAGS SNDGPVGALG
 351  TPLMGEYAGA VDRHYITLGA PLFVATAHPV TRKALNRLIM AQDTGSAIKG
 401  AVRVDYFWGY GDEAGELAGK QKTTGYVWQL LPNGMKPEYR P*
```

The following partial DNA sequence was identified in *N.meningitidis* <SEQ ID 994>:

```
m919-2.seq
   1  ATGAAAAAAT ACCTATTCCG CGCCGCCCTG TACGGCATCG CCGCCGCCAT
  51  CCTCGCCGCC TGCCAAAGCA AGAGCATCCA AACCTTTCCG CAACCCGACA
 101  CATCCGTCAT CAACGGCCCG GACCGGCCGG TCGGCATCCC CGACCCCGCC
 151  GGAACGACGG TCGGCGGCGG CGGGGCCGTC TATACCGTTG TACCGCACCT
 201  GTCCCTGCCC CACTGGGCGG CGCAGGATTT CGCCAAAAGC CTGCAATCCT
 251  TCCGCCTCGG CTGCGCCAAT TTGAAAAACC GCCAAGGCTG GCAGGATGTG
 301  TGCGCCCAAG CCTTTCAAAC CCCCGTCCAT TCCTTTCAGG CAAAACAGTT
 351  TTTTGAACGC TATTTCACGC CGTGGCAGGT TGCAGGCAAC GGAAGCCTTG
 401  CCGGTACGGT TACCGGCTAT TACGAACCGG TGCTGAAGGG CGACGACAGG
 451  CGGACGGCAC AAGCCCGCTT CCCGATTTAC GGTATTCCCG ACGATTTTAT
 501  CTCCGTCCCC CTGCCTGCCG GTTTGCGGAG CGGAAAAGCC CTTGTCCGCA
 551  TCAGGCAGAC GGGAAAAAAC AGCGGCACAA TCGACAATAC CGGCGGCACA
```

```
 601  CATACCGCCG ACCTCTCCCG ATTCCCCATC ACCGCGCGCA CAACAGCAAT
 651  CAAAGGCAGG TTTGAAGGAA GCCGCTTCCT CCCCTACCAC ACGCGCAACC
 701  AAATCAACGG CGGCGCGCTT GACGGCAAAG CCCCGATACT CGGTTACGCC
 751  GAAGACCCTG TCGAACTTTT TTTTATGCAC ATCCAAGGCT CGGGCCGTCT
 801  GAAAACCCCG TCCGGCAAAT ACATCCGCAT CGGCTATGCC GACAAAAACG
 851  AACATCCCTA CGTTTCCATC GGACGCTATA TGGCGGATAA GGGCTACCTC
 901  AAACTCGGAC AAACCTCCAT GCAGGGCATT AAGTCTTATA TGCGGCAAAA
 951  TCCGCAACGC CTCGCCGAAG TTTTGGGTCA AAACCCCAGC TATATCTTTT
1001  TCCGCGAGCT TGCCGGAAGC AGCAATGACG GCCCTGTCGG CGCACTGGGC
1051  ACGCCGCTGA TGGGGGAATA TGCCGGCGCA GTCGACCGGC ACTACATTAC
1101  CTTGGGTGCG CCCTTATTTG TCGCCACCGC CCATCCGGTT ACCCGCAAAG
1151  CCCTCAACCG CCTGATTATG GCGCAGGATA CCGGCAGCGC GATTAAAGGC
1201  GCGGTGCGCG TGGATTATTT TTGGGGATAC GGCGACGAAG CCGGCGAACT
1251  TGCCGGCAAA CAGAAAACCA CGGGATATGT CTGGCAGCTC CTACCCAACG
1301  GTATGAAGCC CGAATACCGC CCGTAA
```

This corresponds to the amino acid sequence <SEQ ID 995; ORF 919-2>:

```
m919-2.pep
   1  MKKYLFRAAL YGIAAAILAA CQSKSIQTFP QPDTSVINGP DRPVGIPDPA
  51  GTTVGGGGAV YTVVPHLSLP HWAAQDFAKS LQSFRLGCAN LKNRQGWQDV
 101  CAQAFQTPVH SFQAKQFFER YFTPWQVAGN GSLAGTVTGY YEPVLKGDDR
 151  RTAQARFPIY GIPDDFISVP LPAGLRSGKA LVRIRQTGKN SGTIDNTGGT
 201  HTADLSRFPI TARTTAIKGR FEGSRFLPYH TRNQINGGAL DGKAPILGYA
 251  EDPVELFFMH IQGSGRLKTP SGKYIRIGYA DKNEHPYVSI GRYMADKGYL
 301  KLGQTSMQGI KSYMRQNPQR LAEVLGQNPS YIFFRELAGS SNDGPVGALG
 351  TPLMGEYAGA VDRHYITLGA PLFVATAHPV TRKALNRLIM AQDTGSAIKG
 401  AVRVDYFWGY GDEAGELAGK QKTTGYVWQL LPNGMKPEYR P*
```

The following partial DNA sequence was identified in *N.gonorrhoeae* <SEQ ID 996>:

```
g919.seq
   1  ATGAAAAAAC ACCTGCTCCG CTCCGCCCTG TACGGcatCG CCGCCgccAT
  51  CctcgCCGCC TGCCAAAgca gGAGCATCCA AACCTTTCCG CAACCCGACA
 101  CATCCGTCAT CAACGGCCCG GACCGGCCGG CCGGCATCCC CGACCCCGCC
 151  GGAACGACGG TTGCCGGCGG CGGGGCCGTC TATACCGTTG TGCCGCACCT
 201  GTCCATGCCC CACTGGGCGG CGCaggATTT TGCCAAAAGC CTGCAATCCT
 251  TCCGCCTCGG CTGCGCCAAT TTGAAAAACC GCCAAGGCTG GCAGGATGTG
 301  TGCGCCCAAG CCTTTCAAAC CCCCGTGCAT TCCTTTCAGG CAAAGcGgTT
 351  TTTTGAACGC TATTTCACGC cgtGGCaggt tgcaggcaAC GGAAGcCTTG
 401  Caggtaccgt TACCGGCTAT TACGAACCGG TGCTGAAGGG CGACGGCAGG
 451  CGGACGGAAC GGGCCCGCTT CCCGATTTAC GGTATTCCCG ACGATTTTAT
 501  CTCCGTCCCG CTGCCTGCCG GTTTGCGGGG CGGAAAAAAC CTTGTCCGCA
 551  TCAGGCAGac ggGGAAAAAC AGCGGCACGA TCGACAATGC CGGCGGCACG
 601  CATACCGCCG ACCTCTCCCG ATTCCCCATC ACCGCGCGCA CAACGGcaat
 651  caaaGGCAGG TTTGAaggAA GCCGCTTCCT CCCTTACCAC ACGCGCAACC
 701  AAAtcaacGG CGGCgcgcTT GACGGCAAag cccCCATCCT CggttacgcC
 751  GAagacccCG tcgaacttTT TTTCATGCAC AtccaaggCT CGGGCCGCCT
 801  GAAAACCCcg tccggcaaat acatCCGCAt cggaTacgcc gacAAAAACG
 851  AACAtcccTa tgtttccatc ggACGctaTA TGGCGGACAA AGGCTACCTC
 901  AAGctcgggc agACCTCGAT GCAGGgcatc aaagcCTATA TGCGGCAAAA
 951  TCCGCAACGC CTCGCCGAAG TTTTGGGTCA AAACCCCAGC TATATCTTTT
1001  TCCGCGAGCT TGCCGGAAGC GGCAATGAGG GCCCCGTCGG CGCACTGGGC
1051  ACGCCACTGA TGGGGGAATA CGCCGGCGCA ATCGACCGGC ACTACATTAC
1101  CTTGGGCGCG CCCTTATTTG TCGCCACCGC CCATCCGGTT ACCCGCAAAG
1151  CCCTCAACCG CCTGATTATG GCGCAGGATA CAGGCAGCGC GATCAAAGGC
1201  GCGGTGCGCG TGGATTATTT TTGGGGTTAC GGCGACGAAG CCGGCGAACT
1251  TGCCGGCAAA CAGAAAACCA CGGGATACGT CTGGCAGCTC CTGCCCAACG
1301  GCATGAAGCC CGAATACCGC CCGTGA
```

This corresponds to the amino acid sequence <SEQ ID 997; ORF 919.ng>:

```
g919.pep
      1  MKKHLLRSAL YGIAAAILAA CQSRSIQTFP QPDTSVINGP DRPAGIPDPA
     51  GTTVAGGGAV YTVVPHLSMP HWAAQDFAKS LQSFRLGCAN LKNRQGWQDV
    101  CAQAFQTPVH SFQAKRFFER YFTPWQVAGN GSLAGTVTGY YEPVLKGDGR
    151  RTERARFPIY GIPDDFISVP LPAGLRGGKN LVRIRQTGKN SGTIDNAGGT
    201  HTADLSRFPI TARTTAIKGR FEGSRFLPYH TRNQINGGAL DGKAPILGYA
    251  EDPVELFFMH IQGSGRLKTP SGKYIRIGYA DKNEHPYVSI GRYMADKGYL
    301  KLGQTSMQGI KAYMRQNPQR LAEVLGQNPS YIFFRELAGS GNEGPVGALG
    351  TPLMGEYAGA IDRHYITLGA PLFVATAHPV TRKALNRLIM AQDTGSAIKG
    401  AVRVDYFWGY GDEAGELAGK QKTTGYVWQL LPNGMKPEYR P*
```

ORF 919 shows 95.9 % identity over a 441 aa overlap with a predicted ORF (ORF 919.ng) from *N. gonorrhoeae:*

```
m919/g919

                    10        20        30        40        50        60
m919.pep    MKKYLFRAALYGIAAAILAACQSKSIQTFPQPDTSVINGPDRPVGIPDPAGTTVGGGGAV
            |||:|:|:||||||||||||||:|||||||||||||||||||:||||||||||:|||||
g919        MKKHLLRSALYGIAAAILAACQSRSIQTFPQPDTSVINGPDRPAGIPDPAGTTVAGGGAV
                    10        20        30        40        50        60

                    70        80        90       100       110       120
m919.pep    YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFQAKQFFER
            ||||||||:|||||||||||||||||||||||||||||||||||||||||||||||:||||
g919        YTVVPHLSMPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFQAKRFFER
                    70        80        90       100       110       120

                   130       140       150       160       170       180
m919.pep    YFTPWQVAGNGSLAGTVTGYYEPVLKGDDRRTAQARFPIYGIPDDFISVPLPAGLRSGKA
            ||||||||||||||||||||||||||||| ||| :|||||||||||||||||||||:||
g919        YFTPWQVAGNGSLAGTVTGYYEPVLKGDGRRTERARFPIYGIPDDFISVPLPAGLRGGKN
                   130       140       150       160       170       180

                   190       200       210       220       230       240
m919.pep    LVRIRQTGKNSGTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL
            ||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
g919        LVRIRQTGKNSGTIDNAGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL
                   190       200       210       220       230       240

                   250       260       270       280       290       300
m919.pep    DGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYL
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
g919        DGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYL
                   250       260       270       280       290       300

                   310       320       330       340       350       360
m919.pep    KLGQTSMQGIKSYMRQNPQRLAEVLGQNPSYIFFRELAGSSNDGPVGALGTPLMGEYAGA
            |||||||||||:||||||||||||||||||||||||||||:|:|||||||||||||||||
g919        KLGQTSMQGIKAYMRQNPQRLAEVLGQNPSYIFFRELAGSGNEGPVGALGTPLMGEYAGA
                   310       320       330       340       350       360

                   370       380       390       400       410       420
m919.pep    VDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGK
            :|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
g919        IDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGK
                   370       380       390       400       410       420
```

```
                    430       440
m919.pep   QKTTGYVWQLLPNGMKPEYRPX
           ||||||||||||||||||||||
g919       QKTTGYVWQLLPNGMKPEYRPX
                    430       440
```

The following partial DNA sequence was identified in *N.meningitidis* <SEQ ID 998>:

```
a919.seq
   1  ATGAAAAAAT ACCTATTCCG CGCCGCCCTG TGCGGCATCG CCGCCGCCAT
  51  CCTCGCCGCC TGCCAAAGCA AGAGCATCCA AACCTTTCCG CAACCCGACA
 101  CATCCGTCAT CAACGGCCCG GACCGGCCGG TCGGCATCCC CGACCCCGCC
 151  GGAACGACGG TCGGCGGCGG CGGGGCCGTT TATACCGTTG TGCCGCACCT
 201  GTCCCTGCCC CACTGGGCGG CGCAGGATTT CGCCAAAAGC CTGCAATCCT
 251  TCCGCCTCGG CTGCGCCAAT TTGAAAAACC GCCAAGGCTG GCAGGATGTG
 301  TGCGCCCAAG CCTTTCAAAC CCCCGTCCAT TCCGTTCAGG CAAAACAGTT
 351  TTTTGAACGC TATTTCACGC CGTGGCAGGT TGCAGGCAAC GGAAGCCTTG
 401  CCGGTACGGT TACCGGCTAT TACGAGCCGG TGCTGAAGGG CGACGACAGG
 451  CGGACGGCAC AAGCCCGCTT CCCGATTTAC GGTATTCCCG ACGATTTTAT
 501  CTCCGTCCCC CTGCCTGCCG GTTTGCGGAG CGGAAAAGCC CTTGTCCGCA
 551  TCAGGCAGAC GGGAAAAAAC AGCGGCACAA TCGACAATAC CGGCGGCACA
 601  CATACCGCCG ACCTCTCCCA ATTCCCCATC ACTGCGCGCA CAACGGCAAT
 651  CAAAGGCAGG TTTGAAGGAA GCCGCTTCCT CCCCTACCAC ACGCGCAACC
 701  AAATCAACGG CGGCGCGCTT GACGGCAAAG CCCCGATACT CGGTTACGCC
 751  GAAGACCCCG TCGAACTTTT TTTTATGCAC ATCCAAGGCT CGGGCCGTCT
 801  GAAAACCCCG TCCGGCAAAT ACATCCGCAT CGGCTATGCC GACAAAAACG
 851  AACATCCCTA CGTTTCCATC GGACGCTATA TGGCGGACAA AGGCTACCTC
 901  AAGCTCGGGC AGACCTCGAT GCAGGGCATC AAAGCCTATA TGCAGCAAAA
 951  CCCGCAACGC CTCGCCGAAG TTTTGGGGCA AAACCCCAGC TATATCTTTT
1001  TCCGAGAGCT TACCGGAAGC AGCAATGACG GCCCTGTCGG CGCACTGGGC
1051  ACGCCGCTGA TGGGCGAGTA CGCCGGCGCA GTCGACCGGC ACTACATTAC
1101  CTTGGGCGCG CCCTTATTTG TCGCCACCGC CCATCCGGTT ACCCGCAAAG
1151  CCCTCAACCG CCTGATTATG GCGCAGGATA CCGGCAGCGC GATTAAAGGC
1201  GCGGTGCGCG TGGATTATTT TTGGGGATAC GGCGACGAAG CCGGCGAACT
1251  TGCCGGCAAA CAGAAAACCA CGGGATATGT CTGGCAGCTT CTGCCCAACG
1301  GTATGAAGCC CGAATACCGC CCGTAA
```

This corresponds to the amino acid sequence <SEQ ID 999; ORF 919.a>:

```
a919.pep
   1  MKKYLFRAAL CGIAAAILAA CQSKSIQTFP QPDTSVINGP DRPVGIPDPA
  51  GTTVGGGGAV YTVVPHLSLP HWAAQDFAKS LQSFRLGCAN LKNRQGWQDV
 101  CAQAFQTPVH SVQAKQFFER YFTPWQVAGN GSLAGTVTGY YEPVLKGDDR
 151  RTAQARFPIY GIPDDFISVP LPAGLRSGKA LVRIRQTGKN SGTIDNTGGT
 201  HTADLSQFPI TARTTAIKGR FEGSRFLPYH TRNQINGGAL DGKAPILGYA
 251  EDPVELFFMH IQGSGRLKTP SGKYIRIGYA DKNEHPYVSI GRYMADKGYL
 301  KLGQTSMQGI KAYMQQNPQR LAEVLGQNPS YIFFRELTGS SNDGPVGALG
 351  TPLMGEYAGA VDRHYITLGA PLFVATAHPV TRKALNRLIM AQDTGSAIKG
 401  AVRVDYFWGY GDEAGELAGK QKTTGYVWQL LPNGMKPEYR P*
```

m919/a919 ORFs 919 and 919.a showed a 98.6% identity in 441 aa overlap

```
                    10        20        30        40        50        60
m919.pep   MKKYLFRAALYGIAAAILAACQSKSIQTFPQPDTSVINGPDRPVGIPDPAGTTVGGGGAV
           |||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
a919       MKKYLFRAALCGIAAAILAACQSKSIQTFPQPDTSVINGPDRPVGIPDPAGTTVGGGGAV
                    10        20        30        40        50        60

                    70        80        90       100       110       120
m919.pep   YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFQAKQFFER
           ||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
a919       YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSVQAKQFFER
```

```
                    70        80        90       100       110       120

                   130       140       150       160       170       180
m919.pep   YFTPWQVAGNGSLAGTVTGYYEPVLKGDDRRTAQARFPIYGIPDDFISVPLPAGLRSGKA
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a919       YFTPWQVAGNGSLAGTVTGYYEPVLKGDDRRTAQARFPIYGIPDDFISVPLPAGLRSGKA
                   130       140       150       160       170       180

                   190       200       210       220       230       240
m919.pep   LVRIRQTGKNSGTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL
           ||||||||||||||||||||||||||:|||||||||||||||||||||||||||||||||
a919       LVRIRQTGKNSGTIDNTGGTHTADLSQFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL
                   190       200       210       220       230       240

                   250       260       270       280       290       300
m919.pep   DGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYL
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a919       DGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYL
                   250       260       270       280       290       300

                   310       320       330       340       350       360
m919.pep   KLGQTSMQGIKSYMRQNPQRLAEVLGQNPSYIFFRELAGSSNDGPVGALGTPLMGEYAGA
           |||||||||||:||:||||||||||||||||||||||:||||||||||||||||||||||
a919       KLGQTSMQGIKAYMQQNPQRLAEVLGQNPSYIFFRELTGSSNDGPVGALGTPLMGEYAGA
                   310       320       330       340       350       360

                   370       380       390       400       410       420
m919.pep   VDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGK
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a919       VDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGK
                   370       380       390       400       410       420

                   430       440
m919.pep   QKTTGYVWQLLPNGMKPEYRPX
           ||||||||||||||||||||||
a919       QKTTGYVWQLLPNGMKPEYRPX
           430       440
```

121 and 121-1

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1000>:

m121.seq

```
  1  ATGGAAACAC AGCTTTACAT CGGCATCATG TCGGGAACCA GCATGGACGG
 51  GGCGGATGCC GTACTGATAC GGATGGACGG CGGCAAATGG CTGGGCGCGG
101  AAGGGCACGC CTTTACCCCC TACCCCGGCA GGTTACGCCG CCAATTGCTG
151  GATTTGCAGG ACACAGGCGC AGACGAACTG CACCGCAGCA GGATTTTGTC
201  GCAAGAACTC AGCCGCCTAT ATGCGCAAAC CGCCGCCGAA CTGCTGTGCA
251  GTCAAAACCT CGCACCGTCC GACATTACCG CCCTCGGCTG CCACGGGCAA
301  ACCGTCCGAC ACGCGCCGGA ACACGGTTAC AGCATACAGC TTGCCGATTT
351  GCCGCTGCTG GCGxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
401  xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
451  xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
501  xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
551  xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
601  xxxxxxCAGC TTCCTTACGA CAAAAACGGT GCAAAGTCGG CACAAGGCAA
651  CATATTGCCG CAACTGCTCG ACAGGCTGCT CGCCCACCCG TATTTCGCAC
701  AACGCCACCC TAAAAGCACG GGGCGCGAAC TGTTTGCCAT AAATTGGCTC
751  GAAACCTACC TTGACGGCGG CGAAAACCGA TACGACGTAT TGCGGACGCT
801  TTCCCGTTTT ACCGCGCAAA CCGTTTGCGA CGCCGTCTCA CACGCAGCGG
```

```
851  CAGATGCCCG TCAAATGTAC ATTTGCGACG GCGGCATCCG CAATCCTGTT
901  TTAATGGCGG ATTTGGCAGA ATGTTTCGGC ACACGCGTTT CCCTGCACAG
951  CACCGCCGAC CTGAACCTCG ATCCGCAATG GGTGGAAGCC GCCGnATTTG
1001 CGTGGTTGGC GGCGTGTTGG ATTAATCGCA TTCCCGGTAG TCCGCACAAA
1051 GCAACCGGCG CATCCAAACC GTGTATTCTG AnCGCGGGAT ATTATTATTG
1101 A
```

This corresponds to the amino acid sequence <SEQ ID 1001; ORF 121>:

m121.pep

```
  1  METQLYIGIM SGTSMDGADA VLIRMDGGKW LGAEGHAFTP YPGRLRRQLL
 51  DLQDTGADEL HRSRILSQEL SRLYAQTAAE LLCSQNLAPS DITALGCHGQ
101  TVRHAPEHGY SIQLADLFLL Axxxxxxxxx xxxxxxxxxx xxxxxxxxxx
151  xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
201  xxQLPYDKNG AKSAQGNILP QLLDRLLAHP YFAQRHPKST GRELFAINWL
251  ETYLDGGENR YDVLRTLSRF TAQTVCDAVS HAAADARQMY ICDGGIRNPV
301  LMADLAECFG TRVSLHSTAD LNLDPQWVEA AXFAWLAACW INRIPGSPHK
351  ATGASKPCIL XAGYYY*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1002>:

g121.seq

```
   1  ATGGAAACAC AGCTTTACAT CGGCATTATG TCGGGAACCA GTATGGACGG
  51  GGCGGATGCC GTGCTGGTAC GGATGGACGG CGGCAAATGG CTGGGCGCGG
 101  AAGGGCACGC CTTTACCCCC TACCCTGACC GGTTGCGCCG CAAATTGCTG
 151  GATTTGCAGG ACACAGGCAC AGACGAACTG CACCGCAGCA GGATGTTGTC
 201  GCAAGAACTC AGCCGCCTGT ACGCGCAAAC CGCCGCCGAA CTGCTGTGCA
 251  GTCAAAACCT CGCTCCGTGC GACATTACCG CCCTCGGCTG CCACGGGCAA
 301  ACCGTCCGAC ACGCGCCGGA ACACGGTtac AGCATACAGC TTGCCGATTT
 351  GCCGCTGCTG GCGGAACTGa cgcggatttT TACCGTCggc gacttcCGCA
 401  GCCGCGACCT TGCTGCCGGC GGacaAGGTG CGCCGCTCGT CCCCGCCTTT
 451  CACGAAGCCC TGTTCCGCGA TGACAGGGAA ACACGCGTGG TACTGAACAT
 501  CGGCGGGATT GCCAACATCA GCGTACTCCC CCCCGGCGCA CCCGCCTTCG
 551  GCTTCGACAC AGGGCCGGGC AATATGCTGA TGGAcgcgtg gacgcaggca
 601  cacTGGcagc TGCCTTACGA CAAAAacggt gcAAAGgcgg cacAAGGCAA
 651  catatTGCcg cAACTGCTCG gcaggctGCT CGCCcaccCG TATTTCTCAC
 701  AACCCcaccc aaAAAGCACG GGgcGCGaac TgtttgcccT AAattggctc
 751  gaaacctAcc ttgacggcgg cgaaaacccga tacgacgtat tgcggacgct
 801  ttcccgattc acccgcgcaaA cccTttcgga cgccgtctca CACGCAGCGG
 851  CAGATGCCCG TCAAATGTAC ATTTGCGGCG GCGGCATCCG CAATCCTGTT
 901  TTAATGGCGG ATTTGGCAGA ATGTTTCGGC ACACGCGTTT CCCTGCACAG
 951  CACCGCCGAA CTGAACCTCG ATCCTCAATG GGTGGAGGCG gcccCATTtg
1001  cgtcgttggC GGCGTGTTGG ATTAACCGCA TTCCCGGTAG TCCGCACAAA
1051  GCGACCGGCG CATCCAAACC GTGTATTCTG GGCGCGGGAT ATTATTATTG
1101  A
```

This corresponds to the amino acid sequence <SEQ ID 1003; ORF 121.ng>:

g121.pep

```
  1  METQLYIGIM SGTSMDGADA VLVRMDGGKW LGAEGHAFTP YPDRLRRKLL
 51  DLQDTGTDEL HRSRMLSQEL SRLYAQTAAE LLCSQNLAPC DITALGCHGQ
101  TVRHAPEHGY SIQLADLPLL AELTRIFTVG DFRSRDLAAG GQGAPLVPAF
151  HEALFRDDRE TRVVLNIGGI ANISVLPPGA PAFGFDTGPG NMLMDAWTQA
201  HWQLPYDKNG AKAAQGNILP QLLGRLLAHP YFSQPHPKST GRELFALNWL
251  ETYLDGGENR YDVLRTLSRF TAQTVWDAVS HAAADARQMY ICGGGIRNPV
301  LMADLAECFG TRVSLHSTAE LNLDPQWVEA AAFAWLAACW INRIPGSPHK
351  ATGASKPCIL GAGYYY*
```

ORF 121 shows 73.5% identity over a 366 aa overlap with a predicted ORF (ORF121.ng) from *N. gonorrhoeae*:

m121/g121

```
                         10        20        30        40        50        60
m121.pep          METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRQLLDLQDTGADEL
                  ||||||||||||||||||||||:||||||||||||||||||| ||||:||||||||:|||
g121              METQLYIGIMSGTSMDGADAVLVRMDGGKWLGAEGHAFTPYPDRLRRKLLDLQDTGTDEL
                         10        20        30        40        50        60
                         70        80        90       100       110       120
m121.pep          HRSRILSQELSRLYAQTAAELLCSQNLAPSDITALGCHGQTVRHAPEHGYSIQLADLPLL
                  ||||:|||||||||||||||||||||||| ||||||||||||||||||||||||||||||
g121              HRSRMLSQELSRLYAQTAAELLCSQNLAPCDITALGCHGQTVRHAPEHGYSIQLADLPLL
                         70        80        90       100       110       120
                        130       140       150       160       170       180
m121.pep          AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                  |  :   :                                :
g121              AELTRIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDDRETRVVLNIGGIANISVLPPGA
                        130       140       150       160       170       180
                        190       200       210       220       230       240
m121.pep          XXXXXXXXXXXXXXXXXXXXXXQLPYDKNGAKSAQGNILPQLLDRLLAHPYFAQRHPKST
                        :          :    ||||||||||:|||||||||| ||||||||:| |||||
g121              FAFGFDTGPGNMLMDAWTQAHWQLPYDKNGAKAAQGNILPQLLGRLLAHPYFSQPHPKST
                        190       200       210       220       230       240
                        250       260       270       280       290       300
m121.pep          GRELFAINWLETYLDGGENRYDVLRTLSRFTAQTVCDAVSHAAADARQMYICDGGIRNPV
                  ||||||:|||||||||||||||||||||||||||| |||||||||||||||| |||||||
g121              GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVWDAVSHAAADARQMYICGGGIRNPV
                        250       260       270       280       290       300
                        310       320       330       340       350       360
m121.pep          LMADLAECFGTRVSLHSTADLNLDPQWVEAAXFAWLAACWINRIPGSPHKATGASKPCIL
                  |||||||||||||||||||:||||||||||| ||||||||||||||||||||||||||||
g121              LMADLAECFGTRVSLHSTAELNLDPQWVEAAAFAWLAACWINRIPGSPHKATGASKPCIL
                        310       320       330       340       350       360

m121.pep          XAGYYYX
                   ||||||
g121              GAGYYYX
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1004>:

```
a121.seq
        1  ATGGAAACAC AGCTTTACAT CGGCATCATG TCGGGAACCA GCATGGACGG
       51  GGCGGATGCC GTACTGATAC GGATGGACGG CGGCAAATGG CTGGGCGCGG
      101  AAGGGCACGC CTTTACCCCC TACCCCGGCA GGTTACGCCG CAAATTGCTG
      151  GATTTGCAGG ACACAGGCGC GGACGAACTG CACCGCAGCA GGATGTTGTC
      201  GCAAGAACTC AGCCGCCTGT ACGCGCAAAC CGCCGCCGAA CTGCTGTGCA
      251  GTCAAAACCT CGCGCCGTCC GACATTACCG CCCTCGGCTG CCACGGGCAA
      301  ACCGTCAGAC ACGCGCCGGA ACACAGTTAC AGCGTACAGC TTGCCGATTT
      351  GCCGCTGCTG GCGGAACGGA CTCAGATTTT TACCGTCGGC GACTTCCGCA
      401  GCCGCGACCT TGCGGCCGGC GGACAAGGCG CGCCGCTCGT CCCCGCCTTT
      451  CACGAAGCCC TGTTCCGCGA CGACAGGGAA ACACGCGCGG TACTGAACAT
      501  CGGCGGGATT GCCAACATCA GCGTACTCCC CCCCGACGCA CCCGCCTTCG
      551  GCTTCGACAC AGGACCGGGC AATATGCTGA TGGACGCGTG GATGCAGGCA
      601  CACTGGCAGC TTCCTTACGA CAAAAACGGT GCAAAGGCGG CACAAGGCAA
      651  CATATTGCCG CAACTGCTCG ACAGGCTGCT CGCCCACCCG TATTTCGCAC
      701  AACCCCACCC TAAAAGCACG GGGCGCGAAC TGTTTGCCCT AAATTGGCTC
      751  GAAACCTACC TTGACGGCGG CGAAAACCGA TACGACGTAT TGCGGACGCT
      801  TTCCCGATTC ACCGCGCAAA CCGTTTTCGA CGCCGTCTCA CACGCAGCGG
      851  CAGATGCCCG TCAAATGTAC ATTTGCGGCG GCGGCATCCG CAATCCTGTT
      901  TTAATGGCGG ATTTGGCAGA ATGTTTCGGC ACACGCGTTT CCCTGCACAG
      951  CACCGCCGAA CTGAACCTCG ATCCGCAATG GGTAGAAGCC GCCGCGTTCG
     1001  CATGGATGGC GGCGTGTTGG GTCAACCGCA TTCCCGGTAG TCCGCACAAA
     1051  GCAACCGGCG CATCCAAACC GTGTATTCTG GGCGCGGGAT ATTATTATTG
     1101  A
```

This corresponds to the amino acid sequence <SEQ ID 1005; ORF 121.a>:

```
a121.pep
      1  METQLYIGIM SGTSMDGADA VLIRMDGGKW LGAEGHAFTP YPGRLRRKLL
     51  DLQDTGADEL HRSRMLSQEL SRLYAQTAAE LLCSQNLAPS DITALGCHGQ
    101  TVRHAPEHSY SVQLADLFLL AERTCIFTVG DFRSRDLAAG GQGAPLVPAF
    151  HEALFRDDRE TRAVLNIGGI ANISVLPPDA PAFGFDTGPG NMLMDAWMQA
    201  HWQLPYDKNG AKAAQGNILP QLLDRLLAHP YFAQPHPKST GRELFALNWL
    251  ETYLDGGENR YDVLRTLSRF TAQTVFDAVS HAAADARQMY ICGGGIRNPV
    301  LMADLAECFG TRVSLHSTAE LNLDPQWVEA AAFAWMAACW VNRIPGSPHK
    351  ATGASKPCIL GAGYYY*
```

```
m121/a121    ORFs 121 and 121.a 74.0% identity in 366 aa overlap

                    10        20        30        40        50        60
m121.pep    METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRQLLDLQDTGADEL
            ||||||||||||||||||||||||||||||||||||||||| ||||:|||||||||||||
a121        METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRKLLDLQDTGADEL
                    10        20        30        40        50        60

                    70        80        90       100       110       120
m121.pep    HRSRILSQELSRLYAQTAAELLCSQNLAPSDITALGCHGQTVRHAPEHGYSIQLADLFLL
            ||||:|||||||||||||||||||||||||||||||||||||||||||:||:||||||||
a121        HRSRMLSQELSRLYAQTAALLLCSQNLAPSDITALGCHGQTVRHAPEHSYSVQLADLPLL
                    70        80        90       100       110       120

                   130       140       150       160       170       180
m121.pep    AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            |  :   :                              :
a121        AERTCIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDDRETRAVLNIGGIANISVLPPDA
                   130       140       150       160       170       180

                   190       200       210       220       230       240
m121.pep    XXXXXXXXXXXXXXXXXXXXXXQLPYDKNGAKSAQGNILPQLLDRLLAHPYFAQRHPKST
                  :               ||||||||||:||||||||||||||||||||| |||||
a121        PAFGFDTGPGNMLMDAWMQAHWQLPYDKNGAKAAQGNILPQLLDRLLAHPYFAQPHPKST
                   190       200       210       220       230       240

                   250       260       270       280       290       300
m121.pep    GRELFAINWLETYLDGGENRYDVLRTLSRFTAQTVCDAVSHAAADARQMYICDGGIRNPV
            ||||||:||||||||||||||||||||||||||||| |||||||||||||||| ||||||
a121        GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVFDAVSHAAADARQMYICGGGIRNPV
                   250       260       270       280       290       300

                   310       320       330       340       350       360
m121.pep    LMADLAECFGTRVSLHSTADLNLDPQWVEAAXFAWLAACWINRIPGSPHKATGASKPCIL
            |||||||||||||||||||:||||||||||| |||:||||:|||||||||||||||||||
a121        LMADLAECFGTRVSLHSTAELNLDPQWVEAAAFAWMAACWVNRIPGSPHKATGASKPCIL
                   310       320       330       340       350       360

m121.pep    XAGYYYX
             ||||||
a121        GAGYYYX
```

Further work revealed the DNA sequence identified in *N. meningitidis* <SEQ ID 1006>:

```
m121-1.seq
      1  ATGGAAACAC AGCTTTACAT CGGCATCATG TCGGGAACCA GCATGGACGG
     51  GGCGGATGCC GTACTGATAC GGATGGACGG CGGCAAATGG CTGGGCGCGG
    101  AAGGGCACGC CTTTACCCCC TACCCCGGCA GGTTACGCCG CCAATTGCTG
    151  GATTTGCAGG ACACAGGCGC AGACGAACTG CACCGCAGCA GGATTTTGTC
    201  GCAAGAACTC AGCCGCCTAT ATGCGCAAAC CGCCGCCGAA CTGCTGTGCA
```

```
 251  GTCAAAACCT CGCACCGTCC GACATTACCG CCCTCGGCTG CCACGGGCAA
 301  ACCGTCCGAC ACGCGCCGGA ACACGGTTAC AGCATACAGC TTGCCGATTT
 351  GCCGCTGCTG GCGGAACGGA CGCGGATTTT TACCGTCGGC GACTTCCGCA
 401  GCCGCGACCT TGCGGCCGGC GGACAAGGCG CGCCACTCGT CCCCGCCTTT
 451  CACGAAGCCC TGTTCCGCGA CAACAGGGAA ACACGCGCGG TACTGAACAT
 501  CGGCGGGATT GCCAACATCA GCGTACTCCC CCCCGACGCA CCCGCCTTCG
 551  GCTTCGACAC AGGGCCGGGC AATATGCTGA TGGACGCGTG GACGCAGGCA
 601  CACTGGCAGC TTCCTTACGA CAAAAACGGT GCAAAGGCGG CACAAGGCAA
 651  CATATTGCCG CAACTGCTCG ACAGGCTGCT CGCCCACCCG TATTTCGCAC
 701  AACCCCACCC TAAAAGCACG GGGCGCGAAC TGTTTGCCCT AAATTGGCTC
 751  GAAACCTACC TTGACGGCGG CGAAAACCGA TACGACGTAT TGCGGACGCT
 801  TTCCCGTTTT ACCGCGCAAA CCGTTTGCGA CGCCGTCTCA CACGCAGCGG
 851  CAGATGCCCG TCAAATGTAC ATTTGCGGCG GCGGCATCCG CAATCCTGTT
 901  TTAATGGCGG ATTTGGCAGA ATGTTTCGGC ACACGCGTTT CCCTGCACAG
 951  CACCGCCGAC CTGAACCTCG ATCCGCAATG GGTGGAAGCC GCCGNATTTG
1001  CGTGGTTGGC GGCGTGTTGG ATTAATCGCA TTCCCGGTAG TCCGCACAAA
1051  GCAACCGGCG CATCCAAACC GTGTATTCTG ANCGCGGGAT ATTATTATTG
1101  A
```

This corresponds to the amino acid sequence <SEQ ID 1007; ORF 121-1>:

```
m121-1.pep
   1  METQLYIGIM SGTSMDGADA VLIRMDGGKW LGAEGHAFTP YPGRLRRQLL
  51  DLQDTGADEL HRSRILSQEL SRLYAQTAAE LLCSQNLAPS DITALGCHGQ
 101  TVRHAPEHGY SIQLADLPLL AERTRIFTVG DFRSRDLAAG GQGAPLVPAF
 151  HEALFRDNRE TRAVLNIGGI ANISVLPPDA PAFGFDTGPG NMLMDAWTQA
 201  HWQLPYDKNG AKAAQGNILP QLLDRLLAHP YFAQPHPKST GRELFALNWL
 251  ETYLDGGENR YDVLRTLSRF TAQTVCDAVS HAAADARQMY ICGGGIRNPV
 301  LMADLAECFG TRVSLHSTAD LNLDPQWVEA AXFAWLAACW INRIPGSPHK
 351  ATGASKPCIL XAGYYY*
```

m121-1/g121 ORFs 121-1 and 121-1.ng showed a 95.6% identity in 366 aa overlap

```
                      10        20        30        40        50        60
m121-1.pep    METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRQLLDLQDTGADEL
              ||||||||||||||||||||||:|||||||||||||||||| ||||:||||||||:|||
g121          METQLYIGIMSGTSMDGADAVLVRMDGGKWLGAEGHAFTPYPDRLRRKLLDLQDTGTDEL
                      10        20        30        40        50        60

                      70        80        90       100       110       120
m121-1.pep    HRSRILSQELSRLYAQTAAELLCSQNLAPSDITALGCHGQTVRHAPEHGYSIQLADLPLL
              ||||:||||||||||||||||||||||||| |||||||||||||||||||||||||||||
g121          HRSRMLSQELSRLYAQTAAELLCSQNLAPCDITALGCHGQTVRHAPEHGYSIQLADLPLL
                      70        80        90       100       110       120

                     130       140       150       160       170       180
m121-1.pep    AERTRIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDNRETRAVLNIGGIANISVLPPDA
              || |||||||||||||||||||||||||||||||||||:||||:|||||||||||||| |
g121          AELTRIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDDRETRVVLNIGGIANISVLPPGA
                     130       140       150       160       170       180

                     190       200       210       220       230       240
m121-1.pep    PAFGFDTGPGNMLMDAWTQAHWQLPYDKNGAKAAQGNILPQLLDRLLAHPYFAQPHPKST
              ||||||||||||||||||||||||||||||||||||||||||| ||||||||:|||||||
g121          PAFGFDTGPGNMLMDAWTQAHWQLPYDKNGAKAAQGNILPQLLGRLLAHPYFSQPHPKST
                     190       200       210       220       230       240

                     250       260       270       280       290       300
m121-1.pep    GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVCDAVSHAAADARQMYICGGGIRNPV
              |||||||||||||||||||||||||||||||||| |||||||||||||||||||||||||
g121          GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVWDAVSHAAADARQMYICGGGIRNPV
                     250       260       270       280       290       300
```

```
                    310       320       330       340       350       360
m121-1.pep    LMADLAECFGTRVSLHSTADLNLDFQWVEAAXFAWLAACWINRIPGSPHKATGASKPCIL
              |||||||||||||||||:||||:||||| ||||||||||||||||||||||||||||
g121          LMADLAECFGTRVSLHSTAELNLDPQWVEAAAFAWLAACWINRIPGSPHKATGASKPCIL
                    310       320       330       340       350       360

m121-1.pep    XAGYYYX
               ||||||
g121          GAGYYYX
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1008>:

```
a121-1.seq
   1  ATGGAAACAC AGCTTTACAT CGGCATCATG TCGGGAACCA GCATGGACGG
  51  GGCGGATGCC GTACTGATAC GGATGGACGG CGGCAAATGG CTGGGCGCGG
 101  AAGGGCACGC CTTTACCCCC TACCCCGGCA GGTTACGCCG CAAATTGCTG
 151  GATTTGCAGG ACACAGGCGC GGACGAACTG CACCGCAGCA GGATGTTGTC
 201  GCAAGAACTC AGCCGCCTGT ACGCGCAAAC CGCCGCCGAA CTGCTGTGCA
 251  GTCAAAACCT CGCGCCGTCC GACATTACCG CCCTCGGCTG CCACGGGCAA
 301  ACCGTCAGAC ACGCGCCGGA ACACAGTTAC AGCGTACAGC TTGCCGATTT
 351  GCCGCTGCTG GCGGAACGGA CTCAGATTTT TACCGTCGGC GACTTCCGCA
 401  GCCGCGACCT TGCGGCCGGC GGACAAGGCG CGCCGCTCGT CCCCGCCTTT
 451  CACGAAGCCC TGTTCCGCGA CGACAGGGAA ACACGCGCGG TACTGAACAT
 501  CGGCGGGATT GCCAACATCA GCGTACTCCC CCCCGACGCA CCCGCCTTCG
 551  GCTTCGACAC AGGACCGGGC AATATGCTGA TGGACGCGTG GATGCAGGCA
 601  CACTGGCAGC TTCCTTACGA CAAAAACGGT GCAAAGGCGG CACAAGGCAA
 651  CATATTGCCG CAACTGCTCG ACAGGCTGCT CGCCCACCCG TATTTCGCAC
 701  AACCCCACCC TAAAAGCACG GGGCGCGAAC TGTTTGCCCT AAATTGGCTC
 751  GAAACCTACC TTGACGGCGG CGAAAACCGA TACGACGTAT TGCGGACGCT
 801  TTCCCGATTC ACCGCGCAAA CCGTTTTCGA CGCCGTCTCA CACGCAGCGG
 851  CAGATGCCCG TCAAATGTAC ATTTGCGGCG GCGGCATCCG CAATCCTGTT
 901  TTAATGGCGG ATTTGGCAGA ATGTTTCGGC ACACGCGTTT CCCTGCACAG
 951  CACCGCCGAA CTGAACCTCG ATCCGCAATG GGTAGAAGCC GCCGCGTTCG
1001  CATGGATGGC GGCGTGTTGG GTCAACCGCA TTCCCGGTAG TCCGCACAAA
1051  GCAACCGGCG CATCCAAACC GTGTATTCTG GGCGCGGGAT ATTATTATTG
1101  A
```

This corresponds to the amino acid sequence <SEQ ID 1009; ORF 121-1.a>:

```
a121-1.pep
   1  METQLYIGIM SGTSMDGADA VLIRMDGGKW LGAEGHAFTP YPGRLRRKLL
  51  DLQDTGADEL HRSRMLSQEL SRLYAQTAAE LLCSQNLAPS DITALGCHGQ
 101  TVRHAPEHSY SVQLADLPLL AERTQIFTVG DFRSRDLAAG GQGAPLVPAF
 151  HEALFRDDRE TRAVLNIGGI ANISVLPPDA PAFGFDTGPG NMLMDAWMQA
 201  HWQLPYDKNG AKAAQGNILP QLLDRLLAHP YFAQPHPKST GRELFALNWL
 251  ETYLDGGENR YDVLRTLSRF TAQTVFDAVS HAAADARQMY ICGGGIRNPV
 301  LMADLAECFG TRVSLHSTAE LNLDPQWVEA AAFAWMAACW VNRIPGSPHK
 351  ATGASKPCIL GAGYYY*
```

```
m121-1/a121-1 ORFs 121-1 and 121-1.a showed a 96.4% identity in 366 aa overlap

                    10        20        30        40        50        60
m121-1.pep    METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRQLLDLQDTGADEL
              |||||||||||||||||||||||||||||||||||||||||||||||:||||||||||||
a121-1        METQLYIGIMSGTSMDGADAVLIRMDGGKWLGAEGHAFTPYPGRLRRKLLDLQDTGADEL
                    10        20        30        40        50        60

                    70        80        90       100       110       120
m121-1.pep    HRSRILSQELSRLYAQTAAELLCSQNLAPSDITALGCHGQTVRHAPEHGYSIQLADLPLL
              ||||:|||||||||||||||||||||||||||||||||||||||||||:||:||||||||
a121-1        HRSRMLSQELSRLYAQTAAELLCSQNLAPSDITALGCHGQTVRHAPEHSYSVQLADLPLL
                    70        80        90       100       110       120
```

```
                    130       140       150       160       170       180
m121-1.pep   AERTRIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDNRETRAVLNIGGIANISVLPPDA
             ||||:||||||||||||||||||||||||||||||||:||||||||||||||||||||||
a121-1       AERTQIFTVGDFRSRDLAAGGQGAPLVPAFHEALFRDDRETRAVLNIGGIANISVLPPDA
                    130       140       150       160       170       180

                    190       200       210       220       230       240
m121-1.pep   PAFGFDTGPGNMLMDAWTQAHWQLPYDKNGAKAAQGNILPQLLDRLLAHPYFAQPHPKST
             ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
a121-1       PAFGFDTGPGNMLMDAWMQAHWQLPYDKNGAKAAQGNILPQLLDRLLAHPYFAQPHPKST
                    190       200       210       220       230       240

                    250       260       270       280       290       300
m121-1.pep   GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVCDAVSHAAADARQMYICGGGIRNPV
             ||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
a121-1       GRELFALNWLETYLDGGENRYDVLRTLSRFTAQTVFDAVSHAAADARQMYICGGGIRNPV
                    250       260       270       280       290       300

                    310       320       330       340       350       360
m121-1.pep   LMADLAECFGTRVSLHSTADLNLDPQWVEAAXFAWLAACWINRIPGSPHKATGASKPCIL
             |||||||||||||||||||:||||||||||| |||:||||:|||||||||||||||||||
a121         LMADLAECFGTRVSLHSTAELNLDPQWVEAAAFAWMAACWVNRIPGSPHKATGASKPCIL
                    310       320       330       340       350       360

m121-1.pep   XAGYYYX
              ||||||
a121         GAGYYYX
```

128 and 128-1

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1010>:

```
m128.seq  (partial)
        1  ATGACTGACA ACGCACTGCT CCATTTGGGC GAAGAACCCC GTTTTGATCA
       51  AATCAAAACC GAAGACATCA AACCCGCCCT GCAAACCGCC ATCGCCGAAG
      101  CGCGCGAACA AATCGCCGCC ATCAAAGCCC AAACGCACAC CGGCTGGGCA
      151  AACACTGTCG AACCCCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
      201  GGGCGTGGTG TCGCACCTCA ACTGCGTCGC CGACACGCCC GAACTGCGCG
      251  CCGTCTATAA CGAACTGATG CCCGAAATCA CCGTCTTCTT CACCGAAATC
      301  GGACAAGACA TCGAGCTGTA CAACCGCTTC AAAACCATCA AAAATTCCCC
      351  CGAATTCGAC ACCCTCTCCC CCGCACAAAA AACCAAACTC AACCAC
        1  TACGCCAGCG AAAAACTGCG CGAAGCCAAA TACGCGTTCA GCGAAACCGA
       51  wGTCAAAAAA TAyTTCCCyG TCGGCAAwGT ATTAAACGGA CTGTTCGCCC
      101  AAmTCAAAAA ACTmTACGGC ATCGGATTTA CCGAAAAAAC yGTCCCCGTC
      151  TGGCACAAAG ACGTGCGCTA TTkTGAATTG CAACAAAACG GCGAAmCCAT
      201  AGGCGGCGTT TATATGGATT TGTACGCACG CGAAGGCAAA CGCGGCGGCG
      251  CGTGGATGAA CGACTACAAA GGCCGCCGCC GTTTTTCAGA CGGCACGCTG
      301  CAAyTGCCCA CCGCCTACCT CGTCTGCAAC TTCGCCCCAC CCGTCGGCGG
      351  CAGGGAAGCC CGCyTGAGCC ACGACGAAAT CCTCATCCTC TTCCACGAAA
      401  CCGGACACGG GCTGCACCAC CTGCTTACCC AAGTGGACGA ACTGGGCGTA
      451  TCCGGCATCA ACGGCGTAkA ATGGGACGCG GTCGAACTGC CCAGCCAGTT
      501  TATGGAAAAT TTCGTTTGGG AATACAATGT CTTGGCACAA mTGTCAGCCC
      551  ACGAAGAAAC CGGcgTTCCC yTGCCGAAAG AACTCTTsGA CAAAwTGCTC
      601  GCCGCCAAAA ACTTCCAAsG CGGCATGTTC yTsGTCCGGC AAwTGGAGTT
      651  CGCCCTCTTT GATATGATGA TTTACAGCGA AGACGACGAA GGCCGTCTGA
      701  AAAACTGGCA ACAGGTTTTA GACAGCGTGC GCAAAAAAGT CGCCGTCATC
      751  CAGCCGCCCG AATACAACCG CTTCGCCTTG AGCTTCGGCC ACATCTTCGC
      801  AGGCGGCTAT TCCGCAGCTn ATTACAGCTA CGCGTGGGCG GAAGTATTGA
```

```
 851  GCGCGGACGC ATACGCCGCC TTTGAAGAAA GCGACGATGT CGCCGCCACA
 901  GGCAAACGCT TTTGGCAGGA AATCCTCGCC GTCGGGGnAT CGCGCAGCGG
 951  nGCAGAATCC TTCAAAGCCT TCCGCGGCCG CGAACCGAGC ATAGACGCAC
1001  TCTTGCGCCA CAGCGGTTTC GACAACGCGG TCTGA
```

This corresponds to the amino acid sequence <SEQ ID 1011; ORF 128>:

```
m128.pep   (partial)
  1  MTDNALLELG EEPRFDQIKT EDIKPALQTA IAEAREQIAA IKAQTHTGWA
 51  NTVEPLTGIT ERVGRIWGVV SHLNCVADTP ELRAVYNELM PEITVFFTEI
101  GQDIELYNKF KTIKNSPEFD TLSPAQKTKL NH
//
  1  YAPEKLREAK YAFSETXVKK YFPVGXVLNG LFAQXKKLYG IGFTEKTVPV
 51  WHKDVRYXEL QQNGEXIGGV YMDLYAREGK RGGAWMNDYK GRRRFSDGTL
101  QLPTAYLVCN FAPPVGGREA RLSHDEILIL FHETGHGLHH LLTQVDELGV
151  SGINGVXWDA VELPSQFMEN FVWEYNVLAQ XSAHEETGVP LPKELXDKXL
201  AAKNFQXGMF XVRQXEFALF DMMIYSEDDE GRLKNWQQVL DSVRKKVAVI
251  QPPEYNRFAL SFGHIFAGGY SAAXYSYAWA EVLSADAYAA FEESDDVAAT
301  GKRFWQEILA VGXSRSGAES FKAFRGREPS IDALLRHSGF DNAV*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1012>:

```
g128.seq
   1  atcattgaca acgCActcct ccacttcggc gaagaaccCC GTTTTaatca
  51  aatccaaacc gaagACAtca AACCCGCCGT CCAAACCGCC ATCGCCGAAG
 101  CGCGCGGACA AATCGCCGCC GTCAAAGCGC AAACGCACAC CGGCTGGGCG
 151  AACACCGTCG AGCGTCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
 201  GGGCGTCGTG TCCCATCTCA ACTCCGTCGT CGACACGCCC GAACTGCGCG
 251  CCGTCTATAA CGAACTGATG CCTGAAATCA CCGTCTTCTT CACCGAAATC
 301  GGACAAGACA TCGAACTGTA CAACCGCTTC AAAACCATCA AAAATTCCCC
 351  CGAATTTGCA ACGCTTTCCC CCGCACAAAA AACCAAGCTC GATCACGACC
 401  TGCGCGATTT CGTATTGAGC GGCGCGGAAC TGCCGCCCGA ACGGCAGGCA
 451  GAACTGGCAA AACTGCAAAC CGAAGGCGCG CAACTTTCCG CCAAATTCTC
 501  CCAAAACGTC CTAGACGCGA CCGACGCGTT CGGCATTTAC TTTGACGATG
 551  CCGCACCGCT TGCCGGCATT CCCGAAGACG CGCTCGCCAT GTTTGCCGCC
 601  GCCGCGCAAA GCGAAGGCAA AACAGGTTAC AAAATCGGCT TGCAGATTCC
 651  GCACTACCTT GCCGTTATCC AATACGCCGG CAACCGCGAA CTGCGCGAAC
 701  AAATCTACCG CGCCTACGTT ACCCGTGCCA GCGAACTTTC AAACGACGGC
 751  AAATTCGACA ACACCGCCAA CATCGACCGC ACGCTCGAAA ACGCATTGAA
 801  AACCGccaaa cTGCTCGGCT TTAAAAATTA CGCCGAATTG TCGCTGGCAA
 851  CCAAAATGGC GGACACGCCC GAACAGGTTT TAAACTTCCT GCACGACCTC
 901  GCCCGCCGCG CCAAACCCTA CGCCGAAAAA GACCTCGCCG AAGTCAAAGC
 951  CTTCGCCCGC GAACACCTCG GTCTCGCCGA CCCGCAGCCG TGGGACTTGA
1001  GCTACGCCGG CGAAAAACTG CGCGAAGCCA AATACGCATT CAGCGAAACC
1051  GAAGTCAAAA AATACTTCCC CGTCGGCAAA GTTCTGGCAG GCCTGTTCGC
1101  CCAAATCAAA AAACTCTACG GCATCGGATT CGCCGAAAAA ACCGTTCCCG
1151  TCTGGCACAA AGACGTGCGC TATTTTGAAT TGCAACAAAA CGGCAAAACC
1201  ATCGGCGGCG TTTATATGGA TTTGTACGCA CGCGAAGGCA AACGCGGCGG
1251  CGCGTGGATG AACGACtaca AAGGCCGCCG CCGCTTTGCC GACGgcacGC
1301  TGCAACTGCC CACCGCCTAC CTCGTCTGCA ACTTCGCCCC GCCCGTCGGC
1351  GGCAAAGAAG CGCGTTTAAG CCACGACGAA ATCCTCACCC TCTTCCACGA
1401  AacCGGCCAC GGACTGCACC ACCTGCTTAC CCAAGTGGAC GAACTGGGCG
1451  TGTCCGGCAT CAAcggcgtA GAATGGGACG CGGTCGAACT GCCCAGCCAG
1501  TTTATGGAAA ACTTCGTTTG GGAATACAAT GTATTGGCAC AAATGTCCGC
1551  CCACGAAGAA AccgGCGAGC CCCTGCCGAA AGAACTCTTC GACAAAATGC
1601  TcgcCGCCAA AAACTTCCAG CGCGGTATGT TCCTCGTCCG GCAAATGGAG
1651  TTCGCCCTCT TCGATATGAT GATTTACAGT GAAAGCGACG AATGCCGTCT
1701  GAAAAACTGG CAGCAGGTTT TAGACAGCGT GCGCAAAGAA GTcGCCGTCA
1751  TCCAACCGCC CGAATACAAC CGCTTCGCCA ACAGCTTCGG CCacatctTC
1801  GCcggcGGCT ATTCCGCAGG CTATTACAGC TACGCATGGG CCGAAGTCCt
1851  cAGCACCGAT GCCTACGCCG CCTTTGAAGA AAGcGACGac gtcGCCGCCA
```

```
1901  CAGGCAAACG CTTCTGGCAA GAAAtccttc ccgtcggcgg ctCCCGCAGC
1951  gcgGCGGAAT CCTTCAAAGC CTTCCGCGGA CGCGAACCGA GCATAGACGC
2001  ACTGCTGCGC CAaagccgtT TCGACAACGC gGCttgA
```

This corresponds to the amino acid sequence <SEQ ID 1013; ORF 128.ng>:

```
g128.pep
      1  MIDNALLHLG EEPRFNQIQT EDIKPAVQTA IAEARGQIAA VKAQTHTGWA
     51  NTVERLTGIT ERVGRIWGVV SHLNSVVDTP ELRAVYNELM PEITVFFTEI
    101  GQDIELYNRF KTIKNSPEFA TLSPAQKTKL DHDLRDFVLS GAELPPERQA
    151  ELAKLQTEGA QLSAKFSQNV LDATDAFGIY FDDAAPLAGI PEDALAMFAA
    201  AAQSEGKTGY KIGLQIPHYL AVIQYAGNRE LREQIYRAYV TRASELSNDG
    251  KFDNTANIDR TLENALKTAK LLGFKNYAEL SLATKMADTP EQVLNFLHDL
    301  ARRAKPYAEK DLAEVKAFAR EHLGLADPQP WDLSYAGEKL REAKYAFSET
    351  EVKKYFPVGK VLAGLFAQIK KLYGIGFAEK TVPVWHKDVR YFELQQNGKT
    401  IGGVYMDLYA REGKRGGAWM NDYKGRRRFA DGTLQLPTAY LVCNFAPPVG
    451  GKEARLSHDE ILTLFHETGH GLHHLLTQVD ELGVSGINGV EWDAVELPSQ
    501  FMENFVWEYN VLAQMSAHEE TGEPLPKELF DKMLAAKNFQ RGMFLVRQME
    551  FALFDMMIYS ESDECRLKNW QQVLDSVRKE VAVIQPPEYN RFANSFGHIF
    601  AGGYSAGYYS YAWAEVLSTD AYAAFEESDD VAATGKRFWQ EILAVGGSRS
    651  AAESFKAFRG REPSIDALLR QSGFDNAA*
```

ORF 128 shows 91.7% identity over a 475 aa overlap with a predicted ORF (ORF 128.ng) from *N. gonorrhoeae*:

```
m128/g128

                      10        20        30        40        50        60
g128.pep      MIDNALLHLGEEPRFNQIQTEDIKPAVQTAIAEARGQIAAVKAQTHTGWANTVERLTGIT
              | |||||||||||||:||:|||||||:||||||||| ||||:|||||||||||| |||||
m128          MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
                      10        20        30        40        50        60

                      70        80        90       100       110       120
g128.pep      ERVGRIWGVVSHLNSVVDTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFA
              |||||||||||||| |:|||||||||||||||||||||||||||||||||||||||||| 
m128          ERVGRIWGVVSHLNCVADTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
                      70        80        90       100       110       120

                     130       140       150       160       170       180
g128.pep      TLSPAQKTKLDHDLRDFVLSGAELPPERQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
              ||||||||||:|
m128          TLSPAQKTKLNH
                     130

                             //

                                               340       350       360
g128.pep                                    YAGEKLREAKYAFSETEVKKYFPVGKVLAG
                                            ||:||||||||||||| |||||||| || |
m128                                        YASEKLREAKYAFSETXVKKYFPVGXVLNG
                                                    10        20        30

                 370       380       390       400       410       420
g128.pep      LFAQIKKLYGIGFAEKTVPVWHKDVRYFELQQNGKTIGGVYMDLYAREGKRGGAWMNDYK
              |||| ||||||||:||||||||||||| ||||||::||||||||||||||||||||||||
m128          LFAQXKKLYGIGFTEKTVPVWHKDVRYXELQQNGEXIGGVYMDLYAREGKRGGAWMNDYK
                      40        50        60        70        80        90

                 430       440       450       460       470       480
g128.pep      GRRRFADGTLQLPTAYLVCNFAPPVGGKEARLSHDEILTLFHETGHGLHHLLTQVDELGV
```

```
                 |||||:|||||||||||||||||||||:||||||||| ||||||||||||||||||||
m128             GKRAFSDGTLQLHTAYLVCNFAHFVGGREARLSHDEILILFHETGHGLHHLLTQVDELGV
                        100       110       120       130       140       150

                    490       500       510       520       530       540
g128.pep         SGINGVEWDAVELPSQFMENFVWEYNVLAQMSAHEETGEPLPKELFDKMLAAKNFQRGMF
                 |||||| |||||||||||||||||||||| |||||| |||||| || ||||||| |||
m128             SGINGVXWLAVLLPSQFMENFVWEYNVLAQXSAHEETGVPLPKELXDKXLAAKNFQXGMF
                        160       170       180       190       200       210

                    550       560       570       580       590       600
g128.pep         LVRQMLFALPLMMIYSESFDECRLKNWQQVLDSVRKEVAVIQPPEYNRFANSFGHIFAGGY
                  ||| |||||||||||:|| ||||||||||||||:||||||||||||| ||||||||||
m128             XVRQXFFALHDMMIYSEDTEGRLKNWQQVLDSVRKKVAVIQPPEYNRFALSFGHIFAGGY
                        220       230       240       250       260       270

                    610       620       630       640       650       660
g128.pep         SAGYYSYAWAEVLSTDAYAAFEESDDVAATGKRFWQEILAVGGSRSAAESFKAFRGREPS
                 ||: ||||||||||:|||||||||||||||||||||||||| |||:||||||||||||||
m128             SAAXYSYAWAEVLSALAYAAFEESDDVAATGKRFWQEILAVGXSRSGAESFKAFRGREPS
                        280       290       300       310       320       330

                    670       679
g128.pep         IDALLRQSGFDNAAX
                 ||||||:||||||:
m128             IDALLRHSGFDNAVX
                        340
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1014>:

```
a128.seq
   1  ATGACTGACA ACGCACTGCT CCATTTGGGC GAAGAACCCC GTTTTGATCA
  51  AATCAAAACC GAAGACATCA AACCCGCCCT GCAAACCGCC ATTGCCGAAG
 101  CGCGCGAACA AATCGCCGCC ATCAAAGCCC AAACGCACAC CGGCTGGGCA
 151  AACACTGTCG AACCCCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
 201  GGGCGTGGTG TCGCACCTCA ACTCCGTCAC CGACACGCCC GAACTGCGCG
 251  CCGCCTACAA TGAATTAATG CCCGAAATTA CCGTCTTCTT CACCGAAATC
 301  GGACAAGACA TCGAGCTGTA CAACCGCTTC AAAACCATCA AAAACTCCCC
 351  CGAGTTCGAC ACCCTCTCCC ACGCGCAAAA AACCAAACTC AACCACGATC
 401  TGCGCGATTT CGTCCTCAGC GGCGCGGAAC TGCCGCCCGA ACAGCAGGCA
 451  GAATTGGCAA AACTGCAAAC CGAAGGCGCG CAACTTTCCG CCAAATTCTC
 501  CCAAAACGTC CTAGACGCGA CCGACGCGTT CGGCATTTAC TTTGACGATG
 551  CCGCACCGCT TGCCGGCATT CCCGAAGACG CGCTCGCCAT GTTTGCCGCT
 601  GCCGCGCAAA GCGAAGGCAA AACAGGCTAC AAAATCGGTT TGCAGATTCC
 651  GCACTACCTC GCCGTCATCC AATACGCCGA CAACCGCAAA CTGCGCGAAC
 701  AAATCTACCG CGCCTACGTT ACCCGCGCCA GCGAGCTTTC AGACGACGGC
 751  AAATTCGACA ACACCGCCAA CATCGACCGC ACGCTCGAAA ACGCCCTGCA
 801  AACCGCCAAA CTGCTCGGCT TCAAAAACTA CGCCGAATTG TCGCTGGCAA
 851  CCAAAATGGC GGACACCCCC GAACAAGTTT TAAACTTCCT GCACGACCTC
 901  GCCCGCCGCG CCAAACCCTA CGCCGAAAAA GACCTCGCCG AAGTCAAAGC
 951  CTTCGCCCGC GAAAGCCTCG GCCTCGCCGA TTTGCAACCG TGGGACTTGG
1001  GCTACGCCGG CGAAAAACTG CGCGAAGCCA AATACGCATT CAGCGAAACC
1051  GAAGTCAAAA AATACTTCCC CGTCGGCAAA GTATTAAACG GACTGTTCGC
1101  CCAAATCAAA AAACTCTACG GCATCGGATT TACCGAAAAA ACCGTCCCCG
1151  TCTGGCACAA AGACGTGCGC TATTTTGAAT TGCAACAAAA CGGCGAAACC
1201  ATAGGCGGCG TTTATATGGA TTTGTACGCA CGCGAAGGCA AACGCGGCGG
1251  CGCGTGGATG AACGACTACA AAGGCCGCCG CCGTTTTTCA GACGGCACGC
1301  TGCAACTGCC CACCGCCTAC CTCGTCTGCA ACTTCACCCC GCCCGTCGGC
1351  GGCAAAGAAG CCCGCTTGAG CCATGACGAA ATCCTCACCC TCTTCCACGA
1401  AACCGGACAC GGCCTGCACC ACCTGCTTAC CCAAGTCGAC GAACTGGGCG
1451  TATCCGGCAT CAACGGCGTA GAATGGGACG CAGTCGAACT GCCCAGTCAG
1501  TTTATGGAAA ATTTCGTTTG GGAATACAAT GTCTTGGCGC AAATGTCCGC
```

```
1551  CCACGAAGAA ACCGGCGTTC CCCTGCCGAA AGAACTCTTC GACAAAATGC
1601  TCGCCGCCAA AAACTTCCAA CGCGGAATGT TCCTCGTCCG CCAAATGGAG
1651  TTCGCCCTCT TTGATATGAT GATTTACAGC GAAGACGACG AAGGCCGTCT
1701  GAAAAACTGG CAACAGGTTT TAGACAGCGT GCGCAAAGAA GTCGCCGTCG
1751  TCCGACCGCC CGAATACAAC CGCTTCGCCA ACAGCTTCGG CCACATCTTC
1801  GCAGGCGGCT ATTCCGCAGG CTATTACAGC TACGCGTGGG CGGAAGTATT
1851  GAGCGCGGAC GCATACGCCG CCTTTGAAGA AAGCGACGAT GTCGCCGCCA
1901  CAGGCAAACG CTTTTGGCAG GAAATCCTCG CCGTCGGCGG ATCGCGCAGC
1951  GCGGCAGAAT CCTTCAAAGC CTTCCGCGGA CGCGAACCGA GCATAGACGC
2001  ACTCTTGCGC CACAGCGGCT TCGACAACGC GGCTTGA
```

This corresponds to the amino acid sequence <SEQ ID 1015; ORF 128.a>:

```
a128.pep
     1  MTDNALLHLG EEPRFDQIKT EDIKPALQTA IAEAREQIAA IKAQTHTGWA
    51  NTVEPLTGIT ERVGRIWGVV SHLNSVTDTP ELRAAYNELM PEITVFFTEI
   101  GQDIELYNRF KTIKNSPEFD TLSHAQKTKL NHDLRDFVLS GAELPPEQQA
   151  ELAKLQTEGA QLSAKFSQNV LDATDAFGIY FDDAAPLAGI PEDALAMFAA
   201  AAQSEGKTGY KIGLQIPHYL AVIQYADNRK LREQIYRAYV TRASELSDDG
   251  KFDNTANIDR TLENALQTAK LLGFKNYAEL SLATKMADTP EQVLNFLHDL
   301  ARRAKPYAEK DLAEVKAFAR ESLGLADLQP WDLGYAGEKL REAKYAFSET
   351  EVKKYFPVGK VLNGLFAQIK KLYGIGFTEK TVPVWHKDVR YFELQQNGET
   401  IGGVYMDLYA REGKRGGAWM NDYKGRRRFS DGTLQLPTAY LVCNFTPPVG
   451  GKEARLSHDE ILTLFHETGH GLHHLLTQVD ELGVSGINGV EWDAVELPSQ
   501  FMENFVWEYN VLAQMSAHEE TGVPLPKELF DKMLAAKNFQ RGMFLVRQME
   551  FALFDMMIYS EDDEGRLKNW QQVLDSVRKE VAVVRPPEYN RFANSFGHIF
   601  AGGYSAGYYS YAWAEVLSAD AYAAFEESDD VAATGKRFWQ EILAVGGSRS
   651  AAESFKAFRG REPSIDALLR HSGFDNAA*
```

m128/a128 ORFs 128 and 128.a showed a 66.0% identity in 677 aa overlap

```
                          10        20        30        40        50        60
m128.pep          MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
                  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a128              MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
                          10        20        30        40        50        60

                          70        80        90       100       110       120
m128.pep          ERVGRIWGVVSHLNCVADTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
                  |||||||||||||| |:|||||||:|||||||||||||||||||||||||||||||||||
a128              ERVGRIWGVVSHLNSVTDTPELRAAYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
                          70        80        90       100       110       120

                         130
m128.pep          TLSPAQKTKLNH------------------------------------------------
                  ||| ||||||||
a128              TLSHAQKTKLNHDLRDFVLSGAELPPEQQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
                         130       140       150       160       170       180

m128.pep          ------------------------------------------------------------

a128              FDDAAPLAGIPEDALAMFAAAAQSEGKTGYKIGLQIPHYLAVIQYADNRKLREQIYRAYV
                         190       200       210       220       230       240

m128.pep          ------------------------------------------------------------

a128              TRASELSDDGKFDNTANIDRTLENALQTAKLLGFKNYAELSLATKMADTPEQVLNFLHDL
                         250       260       270       280       290       300

                                                       140       150
m128.pep          ----------------------------------YASEKLREAKYAFSETXVKKYFPVGX
                                                    ||:||||||||||||| ||||||||
```

```
a128       ARRAKFYAEKDLAFVKAFAREELGLAPLQPWDLGYAGEKLREAKYAFSETEVKKYFPVGK
                   310       320       330       340       350       360

           160       170       180       190       200       210
m128.pep   VLNGLFAQXKKLYGIGFTEKTVFVWEKIVRYXELQQNGEXIGGVYMDLYAREGKRGGAWM
           |||||||| |||||||||||||||||| ||| |||||||:||||||||||||||||||||
a128       VLNGLFAQIKKLYGIGFTEKTVFVWEKDVRYFELQQNGETIGGVYMDLYAREGKRGGAWM
                   370       380       390       400       410       420

           220       230       240       250       260       270
m128.pep   NDYKGRRRFSDGTLQLPTAYLVCNFAFFVGGREARLSHDEILILFHETGHGLHHLLTQVD
           |||||||||||||||||||||||||:|||||:|||||||||| |||||||||||||||||
a128       NDYKGRRRFSDGTLQLPTAYLVCNFTFFVGGKEARLSHDEILTLFHETGHGLHHLLTQVD
                   430       440       450       460       470       480

           280       290       300       310       320       330
m128.pep   ELGVSGINGVXWDAVLLPSQFMENFVWEYNVLAQXSAHEETGVPLPKELXDKXLAAKNFQ
           |||||||||| ||||||||||||:|||||||||| ||||||||||||||| || |||||||
a128       ELGVSGINGVEWDAVLLPSQFMEKFVWEYNVLAQMSAHEETGVPLPKELFDKMLAAKNFQ
                   490       500       510       520       530       540

           340       350       360       370       380       390
m128.pep   XGMFXVRQXEFALFDMMIYSEDDEGRLKNWQQVLDSVRKKVAVIQPPEYNRFALSFGHIF
            ||| ||| ||||||||||||||||||||||||||||||:|||::|||||||| ||||||
a128       RGMFIVRQMEFALFDMMIYSEDDEGRLKNWQQVLDSVRKEVAVVRPPEYNRFANSFGHIF
                   550       560       570       580       590       600

           400       410       420       430       440       450
m128.pep   AGGYSAAXYSYAWAEVLSADAYAAFFESDDVAATGKRFWQEILAVGXSRSGAESFKAFRG
           ||||||: |||||||||||||||||:|||||||||||||||||||| |||:|||||||||
a128       AGGYSAGYYSYAWAEVLSADAYAAFERSDDVAATGKRFWQEILAVGGSRSAAESFKAFRG
                   610       620       630       640       650       660

           460       470
m128.pep   REPSIDALLRHSGFDNAVX
           |||||||||||||||||:
a128       REPSIDALLRHSGFDNAAX
                   670
```

Further work revealed the DNA sequence identified in *N. meningitidis* <SEQ ID 1016>:

```
m128-1.seq
      1  ATGACTGACA ACGCACTGCT CCATTTGGGC GAAGAACCCC GTTTTGATCA
     51  AATCAAAACC GAAGACATCA AACCCGCCCT GCAAACCGCC ATCGCCGAAG
    101  CGCGCGAACA AATCGCCGCC ATCAAAGCCC AAACGCACAC CGGCTGGGCA
    151  AACACTGTCG AACCCCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
    201  GGGCGTGGTG TCGCACCTCA ACTCCGTCGC CGACACGCCC GAACTGCGCG
    251  CCGTCTATAA CGAACTGATG CCCGAAATCA CCGTCTTCTT CACCGAAATC
    301  GGACAAGACA TCGAGCTGTA CAACCGCTTC AAAACCATCA AAAATTCCCC
    351  CGAATTCGAC ACCCTCTCCC CCGCACAAAA AACCAAACTC AACCACGATC
    401  TGCGCGATTT CGTCCTCAGC GGCGCGGAAC TGCCGCCCGA ACAGCAGGCA
    451  GAACTGGCAA AACTGCAAAC CGAAGGCGCG CAACTTTCCG CCAAATTCTC
    501  CCAAAACGTC CTAGACGCGA CCGACGCGTT CGGCATTTAC TTTGACGATG
    551  CCGCACCGCT TGCCGGCATT CCCGAAGACG CGCTCGCCAT GTTTGCCGCC
    601  GCCGCGCAAA GCGAAAGCAA AACAGGCTAC AAAATCGGCT TGCAGATTCC
    651  ACACTACCTC GCCGTCATCC AATACGCCGA CAACCGCGAA CTGCGCGAAC
    701  AAATCTACCG CGCCTACGTT ACCCGCGCCA GCGAACTTTC AGACGACGGC
    751  AAATTCGACA ACACCGCCAA CATCGACCGC ACGCTCGCAA ACGCCCTGCA
    801  AACCGCCAAA CTGCTCGGCT TCAAAAACTA CGCCGAATTG TCGCTGGCAA
    851  CCAAAATGGC GGACACGCCC GAACAAGTTT TAAACTTCCT GCACGACCTC
```

```
 901  GCCCGCCGCG CCAAACCCTA CGCCGAAAAA GACCTCGCCG AAGTCAAAGC
 951  CTTCGCCCGC GAAAGCCTGA ACCTCGCCGA TTTGCAACCG TGGGACTTGG
1001  GCTACGCCAG CGAAAAACTG CGCGAAGCCA AATACGCGTT CAGCGAAACC
1051  GAAGTCAAAA AATACTTCCC CGTCGGCAAA GTATTAAACG GACTGTTCGC
1101  CCAAATCAAA AAACTCTACG GCATCGGATT TACCGAAAAA ACCGTCCCCG
1151  TCTGGCACAA AGACGTGCGC TATTTTGAAT TGCAACAAAA CGGCGAAACC
1201  ATAGGCGGCG TTTATATGGA TTTGTACGCA CGCGAAGGCA AACGCGGCGG
1251  CGCGTGGATG AACGACTACA AAGGCCGCCG CCGTTTTTCA GACGGCACGC
1301  TGCAACTGCC CACCGCCTAC CTCGTCTGCA ACTTCGCCCC ACCCGTCGGC
1351  GGCAGGGAAG CCCGCCTGAG CCACGACGAA ATCCTCATCC TCTTCCACGA
1401  AACCGGACAC GGGCTGCACC ACCTGCTTAC CCAAGTGGAC GAACTGGGCG
1451  TATCCGGCAT CAACGGCGTA GAATGGGACG CGGTCGAACT GCCCAGCCAG
1501  TTTATGGAAA ATTTCGTTTG GGAATACAAT GTCTTGGCAC AAATGTCAGC
1551  CCACGAAGAA ACCGGCGTTC CCCTGCCGAA AGAACTCTTC GACAAAATGC
1601  TCGCCGCCAA AAACTTCCAA CGCGGCATGT TCCTCGTCCG GCAAATGGAG
1651  TTCGCCCTCT TTGATATGAT GATTTACAGC GAAGACGACG AAGGCCGTCT
1701  GAAAAACTGG CAACAGGTTT TAGACAGCGT GCGCAAAAAA GTCGCCGTCA
1751  TCCAGCCGCC CGAATACAAC CGCTTCGCCT TGAGCTTCGG CCACATCTTC
1801  GCAGGCGGCT ATTCCGCAGG CTATTACAGC TACGCGTGGG CGGAAGTATT
1851  GAGCGCGGAC GCATACGCCG CCTTTGAAGA AAGCGACGAT GTCGCCGCCA
1901  CAGGCAAACG CTTTTGGCAG GAAATCCTCG CCGTCGGCGG ATCGCGCAGC
1951  GCGGCAGAAT CCTTCAAAGC CTTCCGCGGC CGCGAACCGA GCATAGACGC
2001  ACTCTTGCGC CACAGCGGTT TCGACAACGC GGTCTGA
```

This corresponds to the amino acid sequence <SEQ ID 1017; ORF 128-1>:

```
m128-1.pep.
   1  MTDNALLHLG EEPRFDQIKT EDIKPALQTA IAEAREQIAA IKAQTHTGWA
  51  NTVEPLTGIT ERVGRIWGVV SHLNSVADTF ELRAVYNELM PEITVFFTEI
 101  GQDIFLYNRF KTIKNSPEFD TLSPAQKTKL NHDLRDFVLS GAELPPEQQA
 151  ELAKLQTEGA QLSAKFSQNV LDATDAFGIY FDDAAPLAGI PEDALAMFAA
 201  AAQSESKTGY KIGLQIPHYL AVIQYADNRE LREQIYRAYV TRASELSDDG
 251  KFDNTANIDR TLANALQTAK LLGFKNYAEL SLATKMADTP EQVLNFLHDL
 301  ARRAKPYAEK DLAEVKAFAR ESLNLADLQP WDLGYASEKL REAKYAFSET
 351  EVKKYFPVGK VLNGLFAQIK KLYGIGFTEK TVPVWHKDVR YFELQQNGET
 401  IGGVYMDLYA REGKRGGAWM NDYKGRRRFS DGTLQLPTAY LVCNFAPPVG
 451  GREARLSHDE ILILFHETGH GLHHLLTQVD ELGVSGINGV EWDAVELPSQ
 501  FMENFVWEYN VLAQMSAHEE TGVPLPKELF DKMLAAKNFQ RGMFLVRQME
 551  FALFDMMIYS EDDEGRLKNW QQVLDSVRKK VAVIQPPEYN RFALSFGHIF
 601  AGGYSAGYYS YAWAEVLSAD AYAAFEESDD VAATGKRFWQ EILAVGGSRS
 651  AAESFKAFRG REPSIDALLR HSGFDNAV*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1018>:

```
g128-1.seq   (partial)
   1  ATGATTGACA ACGCACTGCT CCACTTGGGC GAAGAACCCC GTTTTAATCA
  51  AATCAAAACC GAAGACATCA AACCCGCCGT CCAAACCGCC ATCGCCGAAG
 101  CGCGCGGACA AATCGCCGCC GTCAAAGCGC AAACGCACAC CGGCTGGGCG
 151  AACACCGTCG AGCGTCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
 201  GGGCGTCGTG TCCCATCTCA ACTCCGTCGT CGACACGCCC GAACTGCGCG
 251  CCGTCTATAA CGAACTGATG CCTGAAATCA CCGTCTTCTT CACCGAAATC
 301  GGACAAGACA TCGAACTGTA CAACCGCTTC AAAACCATCA AAAATTCCCC
 351  CGAATTTGCA ACGCTTTCCC CCGCACAAAA AACCAAGCTC GATCACGACC
 401  TGCGCGATTT CGTATTGAGC GGCGCGGAAC TGCCGCCCGA ACGGCAGGCA
 451  GAACTGGCAA AACTGCAAAC CGAAGGCGCG CAACTTTCCG CCAAATTCTC
 501  CCAAAACGTC CTAGACGCGA CCGACGCGTT CGGCATTTAC TTTGACGATG
 551  CCGCACCGCT TGCCGGCATT CCCGAAGACG CGCTCGCCAT GTTTGCCGCC
 601  GCCGCGCAAA GCGAAGGCAA AACAGGTTAC AAAATCGGCT TGCAGATTCC
 651  GCACTACCTT GCCGTTATCC AATACGCCGG CAACCGCGAA CTGCGCGAAC
 701  AAATCTACCG CGCCTACGTT ACCCGTGCCA GCGAACTTTC AAACGACGGC
 751  AAATTCGACA ACACCGCCAA CATCGACCGC ACGCTCGAAA ACGCATTGAA
 801  AACCGCCAAA CTGCTCGGCT TTAAAAATTA CGCCGAATTG TCGCTGGCAA
 851  CCAAAATGGC GGACACGCCC GAACAGGTTT TAAACTTCCT GCACGACCTC
 901  GCCCGCCGCG CCAAACCCTA CGCCGAAAAA GACCTCGCCG AAGTCAAAGC
```

```
 951  CTTCGCCCGC GAACACCTCG GTCTCGCCGA CCCGCAGCCG TGGGACTTGA
1001  GCTACGCCGG CGAAAAACTG CGCGAAGCCA AATACGCATT CAGCGAAACC
1051  GAAGTCAAAA AATACTTCCC CGTCGGCAAA GTTCTGGCAG GCCTGTTCGC
1101  CCAAATCAAA AAACTCTACG GCATCGGATT CGCCGAAAAA ACCGTTCCCG
1151  TCTGGCACAA AGACGTGCGC TATTTTGAAT TGCAACAAAA CGGCAAAACC
1201  ATCGGCGGCG TTTATATGGA TTTGTACGCA CGCGAAGGCA AACGCGGCGG
1251  CGCGTGGATG AACGACTACA AAGGCCGCCG CCGCTTTGCC GACGGCACGC
1301  TGCAACTGCC CACCGCCTAC CTCGTCTGCA ACTTCGCCCC GCCCGTCGGC
1351  GGCAAAGAAG CGCGTTTAAG CCACGACGAA ATCCTCACCC TCTTCCACGA
1401  AACCGGCCAC GGACTGCACC ACCTGCTTAC CCAAGTGGAC GAACTGGGCG
1451  TGTCCGGCAT CAACGGCGTA AAA
```

This corresponds to the amino acid sequence <SEQ ID 1019; ORF 128-1.ng>:

```
g128-1.pep   (partial)
    1  MIDNALLHLG EEPRFNQIKT EIIKPAVQTA IAEARGQIAA VKAQTHTGWA
   51  NTVERLTGIT ERVGRIWGVV SHLNSVVDTP ELRAVYNELM PEITVFFTEI
  101  GQDIELYNRF KTIKNSPEFA TLSPAQKTKL DHDLRDFVLS GAELPPERQA
  151  ELAKLQTEGA QLSAKFSQNV LDATDAFGIY FDDAAPLAGI PEDALAMFAA
  201  AAQSEGKTGY KIGLQIPHYL AVIQYAGNRE LREQIYRAYV TRASELSNDG
  251  KFDNTANIDR TLENALKTAK LLGFKNYAEL SLATKMADTP EQVLNFLHDL
  301  ARRAKPYAEK DLAEVKAFAR EHLGLADPQP WDLSYAGEKL REAKYAFSET
  351  EVKKYFPVGK VLAGLFAQIK KLYGIGFAEK TVPVWHKDVR YFELQQNGKT
  401  IGGVYMDLYA RRGKRGGAWM NDYKGRRRFA DGTLQLPTAY LVCNFAPPVG
  451  GKEARLSHDE IITLFHETGH GLHHLLTQVD ELGVSGINGV K
```

```
m128-1/g128-1   ORFs 128-1 and 128-1.ng showed a 94.5% identity in 491 aa
overlap

                      10        20        30        40        50        60
g128-1.pep    MIDNALLHLGEEPRFNQIKTEIIKPAVQTAIAEARGQIAAVKAQTHTGWANTVERLTGIT
              | ||||||||||||:||:||||||||||:||||||||| ||||:|||||||||||||| |||||
m128-1        MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
                      10        20        30        40        50        60

                      70        80        90       100       110       120
g128-1.pep    ERVGRIWGVVSHLNSVVDTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFA
              ||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
m128-1        ERVGRIWGVVSHLNSVADTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
                      70        80        90       100       110       120

                     130       140       150       160       170       180
g128-1.pep    TLSPAQKTKLDHDLRDFVLSGAELPPERQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
              ||||||||||:||||||||||||||||:||||||||||||||||||||||||||||||||
m128-1        TLSPAQKTKLNHDLRDFVLSGAELPPEQQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
                     130       140       150       160       170       180

                     190       200       210       220       230       240
g128-1.pep    FDDAAPLAGIPEDALAMFAAAAQSEGKTGYKIGLQIPHYLAVIQYAGNRELREQIYRAYV
              ||||||||||||||||||||||||||:||||||||||||||||||||| ||||||||||||
m128-1        FDDAAPLAGIPEDALAMFAAAAQSESKTGYKIGLQIPHYLAVIQYADNRELREQIYRAYV
                     190       200       210       220       230       240

                     250       260       270       280       290       300
g128-1.pep    TRASELSNDGKFDNTANIDRTLENALKTAKLLGFKNYAELSLATKMADTPEQVLNFLHDL
              |||||||:||||||||||||| |||:||||||||||||||||||||||||||||||||||
m128-1        TRASELSDDGKFDNTANIDRTLANALQTAKLLGFKNYAELSLATKMADTPEQVLNFLHDL
                     250       260       270       280       290       300

                     310       320       330       340       350       360
g128-1.pep    ARRAKPYAEKDLAEVKAFAREHLGLADPQPWDLSYAGEKLREAKYAFSETEVKKYFPVGK
              |||||||||||||||||||| |:||| |||||:||:||||||||||||||||||||||||
```

```
m128-1        ARRAKFYAEKDLAEVKAFARESLNLADLQPWDLGYASEKLREAKYAFSETEVKKYFPVGK
                      310       320       330       340       350       360

                      370       380       390       400       410       420
g128-1.pep    VLAGLFAQIKKLYGIGFAEKTVPVWHKDVRYFELQQNGKTIGGVYMDLYAREGKRGGAWM
              || ||||||||||||||:||||||||||||||||||||:|||||||||||||||||||||
m128-1        VLNGLFAQIKKLYGIGFTEKTVPVWHKDVRYFELQQNGETIGGVYMDLYAREGKRGGAWM
                      370       380       390       400       410       420

                      430       440       450       460       470       480
g128-1.pep    NDYKGRRFFADGTLQLPTAYLVCNFAPPVGGKEARLSHDEILTLFHETGHGLHHLLTQVD
              |||||||||:||||||||||||||||||||||:|||||||||| ||||||||||||||||
m128-1        NDYKGRRFFSDGTLQLPTAYLVCNFAPPVGGREARLSHDEILILFHETGHGLHHLLTQVD
                      430       440       450       460       470       480

                      490
g128-1.pep    ELGVSGINGVK
              ||||||||||:
m128-1        ELGVSGINGVEWDAVELPSQFMENFVWEYNVLAQMSAHEETGVPLPKELFDKMLAAKNFQ
                      490       500       510       520       530       540
```

The following DNA sequence was identified in *N. meningitidis* <SEQ ID 1020>:

```
a128-1.seq
      1  ATGACTGACA ACGCACTGCT CCATTTGGGC GAAGAACCCC GTTTTGATCA
     51  AATCAAAACC GAAGACATCA AACCCGCCCT GCAAACCGCC ATTGCCGAAG
    101  CGCGCGAACA AATCGCCGCC ATCAAAGCCC AAACGCACAC CGGCTGGGCA
    151  AACACTGTCG AACCCCTGAC CGGCATCACC GAACGCGTCG GCAGGATTTG
    201  GGGCGTGGTG TCGCACCTCA ACTCCGTCAC CGACACGCCC GAACTGCGCG
    251  CCGCCTACAA TGAATTAATG CCCGAAATTA CCGTCTTCTT CACCGAAATC
    301  GGACAAGACA TCGAGCTGTA CAACCGCTTC AAAACCATCA AAAACTCCCC
    351  CGAGTTCGAC ACCCTCTCCC ACGCGCAAAA AACCAAACTC AACCACGATC
    401  TGCGCGATTT CGTCCTCAGC GGCGCGGAAC TGCCGCCCGA ACAGCAGGCA
    451  GAATTGGCAA AACTGCAAAC CGAAGGCGCG CAACTTTCCG CCAAATTCTC
    501  CCAAAACGTC CTAGACGCGA CCGACGCGTT CGGCATTTAC TTTGACGATG
    551  CCGCACCGCT TGCCGGCATT CCCGAAGACG CGCTCGCCAT GTTTGCCGCT
    601  GCCGCGCAAA GCGAAGGCAA AACAGGCTAC AAAATCGGTT TGCAGATTCC
    651  GCACTACCTC GCCGTCATCC AATACGCCGA CAACCGCAAA CTGCGCGAAC
    701  AAATCTACCG CGCCTACGTT ACCCGCGCCA GCGAGCTTTC AGACGACGGC
    751  AAATTCGACA ACACCGCCAA CATCGACCGC ACGCTCGAAA ACGCCCTGCA
    801  AACCGCCAAA CTGCTCGGCT TCAAAAACTA CGCCGAATTG TCGCTGGCAA
    851  CCAAAATGGC GGACACCCCC GAACAAGTTT TAAACTTCCT GCACGACCTC
    901  GCCCGCCGCG CCAAACCCTA CGCCGAAAAA GACCTCGCCG AAGTCAAAGC
    951  CTTCGCCCGC GAAAGCCTCG GCCTCGCCGA TTTGCAACCG TGGGACTTGG
   1001  GCTACGCCGG CGAAAAACTG CGCGAAGCCA AATACGCATT CAGCGAAACC
   1051  GAAGTCAAAA AATACTTCCC CGTCGGCAAA GTATTAAACG GACTGTTCGC
   1101  CCAAATCAAA AAACTCTACG GCATCGGATT TACCGAAAAA ACCGTCCCCG
   1151  TCTGGCACAA AGACGTGCGC TATTTTGAAT TGCAACAAAA CGGCGAAACC
   1201  ATAGGCGGCG TTTATATGGA TTTGTACGCA CGCGAAGGCA AACGCGGCGG
   1251  CGCGTGGATG AACGACTACA AAGGCCGCCG CCGTTTTTCA GACGGCACGC
   1301  TGCAACTGCC CACCGCCTAC CTCGTCTGCA ACTTCACCCC GCCCGTCGGC
   1351  GGCAAAGAAG CCCGCTTGAG CCATGACGAA ATCCTCACCC TCTTCCACGA
   1401  AACCGGACAC GGCCTGCACC ACCTGCTTAC CCAAGTCGAC GAACTGGGCG
   1451  TATCCGGCAT CAACGGCGTA GAATGGGACG CAGTCGAACT GCCCAGTCAG
   1501  TTTATGGAAA ATTTCGTTTG GGAATACAAT GTCTTGGCGC AAATGTCCGC
   1551  CCACGAAGAA ACCGGCGTTC CCCTGCCGAA AGAACTCTTC GACAAAATGC
   1601  TCGCCGCCAA AAACTTCCAA CGCGGAATGT TCCTCGTCCG CCAAATGGAG
   1651  TTCGCCCTCT TTGATATGAT GATTTACAGC GAAGACGACG AAGGCCGTCT
   1701  GAAAAACTGG CAACAGGTTT TAGACAGCGT GCGCAAAGAA GTCGCCGTCG
   1751  TCCGACCGCC CGAATACAAC CGCTTCGCCA ACAGCTTCGG CCACATCTTC
   1801  GCAGGCGGCT ATTCCGCAGG CTATTACAGC TACGCGTGGG CGGAAGTATT
   1851  GAGCGCGGAC GCATACGCCG CCTTTGAAGA AAGCGACGAT GTCGCCGCCA
   1901  CAGGCAAACG CTTTTGGCAG GAAATCCTCG CCGTCGGCGG ATCGGCGCAG
```

```
1951  GCGGCAGAAT CCTTCAAAGC CTTCCGCGGA CGCGAACCGA GCATAGACGC
2001  ACTCTTGCGC CACAGCGGCT TCGACAACGC GGCTTGA
```

This corresponds to the amino acid sequence <SEQ ID 1021; ORF 128-1.a>:

```
a128-1.pep
      1  MTDNALLHLG EEPRFDQIKT EDIKPALQTA IAEAREQIAA IKAQTHTGWA
     51  NTVEPLTGIT ERVGRIWGVV SHLNSVTDTP ELRAAYNELM PEITVFFTEI
    101  GQDIELYNRF KTIKNSPEFD TLSHAQKTKL NHDLRDFVLS GAELPPEQQA
    151  ELAKLQTEGA QLSAKFSQNV LDATDAFGIY FDDAAPLAGI PEDALAMFAA
    201  AAQSEGKTGY KIGLQIPHYL AVIQYADNRK LREQIYRAYV TRASELSDDG
    251  KFDNTANIDR TLENALQTAK LLGFKNYAEL SLATKMADTP EQVLNFLHDL
    301  ARRAKPYAEK DLAEVKAFAR ESLGLADLQP WDLGYAGEKL REAKYAFSET
    351  EVKKYFPVGK VLNGLFAQIK KLYGIGFTEK TVPVWHKDVR YFELQQNGET
    401  IGGVYMDLYA REGKRGGAWM NDYKGRRRFS DGTLQLPTAY LVCNFTPPVG
    451  GKEARLSHDE IITLFHETGH GLHHLLTQVD ELGVSGINGV EWDAVELPSQ
    501  FMENFVWEYN VLAQMSAHEE TGVPLPKELF DKMLAAKNFQ RGMFLVRQME
    551  FALFDMMIYS EDDEGRLKNW QQVLDSVRKE VAVVRPPEYN RFANSFGHIF
    601  AGGYSAGYYS YAWAEVLSAD AYAAFEESDD VAATGKRFWQ EILAVGGSRS
    651  AAESFKAFRG REPSIDALLR HSGFDNAA*
```

m128-1/a128-1 ORFs 128-1 and 128-1.a showed a 97.8% identity in 677 aa overlap

```
                    10        20        30        40        50        60
a128-1.pep  MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m128-1      MTDNALLHLGEEPRFDQIKTEDIKPALQTAIAEAREQIAAIKAQTHTGWANTVEPLTGIT
                    10        20        30        40        50        60

                    70        80        90       100       110       120
a128-1.pep  ERVGRIWGVVSHLNSVTDTPELRAAYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
            ||||||||||||||||:|||||||:|||||||||||||||||||||||||||||||||||
m128-1      ERVGRIWGVVSHLNSVADTPELRAVYNELMPEITVFFTEIGQDIELYNRFKTIKNSPEFD
                    70        80        90       100       110       120

                   130       140       150       160       170       180
a128-1.pep  TLSHAQKTKLNHDLRDFVLSGAELPPEQQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
            ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m128-1      TLSPAQKTKLNHDLRDFVLSGAELPPEQQAELAKLQTEGAQLSAKFSQNVLDATDAFGIY
                   130       140       150       160       170       180

                   190       200       210       220       230       240
a128-1.pep  FDDAAPLAGIPEDALAMFAAAAQSEGKTGYKIGLQIPHYLAVIQYADNRKLREQIYRAYV
            ||||||||||||||||||||||||:|||||||||||||||||||||||||:|||||||||
m128-1      FDDAAPLAGIPEDALAMFAAAAQSESKTGYKIGLQIPHYLAVIQYADNRELREQIYRAYV
                   190       200       210       220       230       240

                   250       260       270       280       290       300
a128-1.pep  TRASELSDDGKFDNTANIDRTLENALQTAKLLGFKNYAELSLATKMADTPEQVLNFLHDL
            ||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
m128-1      TRASELSDDGKFDNTANIDRTLANALQTAKLLGFKNYAELSLATKMADTPEQVLNFLHDL
                   250       260       270       280       290       300

                   310       320       330       340       350       360
a128-1.pep  ARRAKPYAEKDLAEVKAFARESLGLADLQPWDLGYAGEKLREAKYAFSETEVKKYFPVGK
            ||||||||||||||||||||||:||||||||||||:||||||||||||||||||||||||
m128-1      ARRAKPYAEKDLAEVKAFARESLNLADLQPWDLGYASEKLREAKYAFSETEVKKYFPVGK
                   310       320       330       340       350       360

                   370       380       390       400       410       420
a128-1.pep  VLNGLFAQIKKLYGIGFTEKTVPVWHKDVRYFELQQNGETIGGVYMDLYAREGKRGGAWM
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m128-1      VLNGLFAQIKKLYGIGFTEKTVPVWHKDVRYFELQQNGETIGGVYMDLYAREGKRGGAWM
```

```
                 370         380         390         400         410         420

                 430         440         450         460         470         480
a128-1.pep  NDYKGRRRFSDGTLQLPTAYLVCNFTPPVGGKEARLSHDEILTLFHETGHGLHHLLTQVD
            |||||||||||||||||||||||||:|||||:||||||||| ||||||||||||||||||
m128-1      NDYKGRRRFSDGTLQLPTAYLVCNFAPPVGGREARLSHDEILILFHETGHGLHHLLTQVD
                 430         440         450         460         470         480

                 490         500         510         520         530         540
a128-1.pep  ELGVSGINGVEWDAVELPSQFMENFVWEYNVLAQMSAHEETGVPLPKELFDKMLAAKNFQ
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m128-1      ELGVSGINGVEWDAVELPSQFMENFVWEYNVLAQMSAHEETGVPLPKELFDKMLAAKNFQ
                 490         500         510         520         530         540

                 550         560         570         580         590         600
a128-1.pep  RGMFLVRQMEFALFDMMIYSEDDEGRLKNWQQVLDSVRKEVAVVRPPEYNRFANSFGHIF
            |||||||||||||||||||||||||||||||||||||||:|||::|||||||| ||||||
m128-1      RGMFLVRQMEFALFDMMIYSEDDEGRLKNWQQVLDSVRKKVAVIQPPEYNRFALSFGHIF
                 550         560         570         580         590         600

                 610         620         630         640         650         660
a128-1.pep  AGGYSAGYYSYAWAEVLSADAYAAFEESDDVAATGKRFWQEILAVGGSRSAAESFKAFRG
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m128-1      AGGYSAGYYSYAWAEVLSADAYAAFEESDDVAATGKRFWQEILAVGGSRSAAESFKAFRG
                 610         620         630         640         650         660

                 670         679
a128-1.pep  REPSIDALLRHSGFDNAAX
            |||||||||||||||||:
m128-1      REPSIDALLRHSGFDNAVX
                 670
```

206

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1022>:

```
m206.seq
      1  ATGTTTCCCC CCGACAAAAC CCTTTTCCTC TGTCTCAGCG CACTGCTCCT
     51  CGCCTCATGC GGCACGACCT CCGGCAAACA CCGCCAACCG AAACCCAAAC
    101  AGACAGTCCG GCAAATCCAA GCCGTCCGCA TCAGCCACAT CGACCGCACA
    151  CAAGGCTCGC AGGAACTCAT GCTCCACAGC CTCGGACTCA TCGGCACGCC
    201  CTACAAATGG GGCGGCAGCA GCACCGCAAC CGGCTTCGAT TGCAGCGGCA
    251  TGATTCAATT CGTTTACAAr AACGCCCTCA ACGTCAAGCT GCCGCGCACC
    301  GCCCGCGACA TGGCGGCGGC AAGCCGsAAA ATCCCCGAcA GCCGCyTCAA
    351  GGCCGGCGAC CTCGTATTCT TCAACACCGG CGGCGCACAC CGCTACTCAC
    401  ACGTCGGACT CTACATCGGC AACGGCGAAT TCATCCATGC CCCCAGCAGC
    451  GGCAAAACCA TCAAAACCGA AAAACTCTCC ACACCGTTTT ACGCCAAAAA
    501  CTACCTCGGC GCACATACTT TTTTTACAGA ATGA
```

This corresponds to the amino acid sequence <SEQ ID 1023; ORF 206>:

```
m206.pep..
      1  MFPPDKTLFL CLSALLLASC GTTSGKHRQP KPKQTVRQIQ AVRISHIDRT
     51  QGSQELMLHS LGLIGTPYKW GGSSTATGFD CSGMIQFVYK NALNVKLPRT
    101  ARDMAAASRK IFDSRXKAGD LVFFNTGGAH RYSHVGLYIG NGEFIHAPSS
    151  GKTIKTEKLS TPFYAKNYLG AHTFFTE*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1024>:

```
g206.seq
      1  atgtttcccc ccgacaaaac ccttttcctc tgtctcggcg cactgctcct
```

```
 51  cgcctcatgc ggcacgacct ccggcaaaca ccgccaaccg aaacccaaac
101  agacagtccg gcaaatccaa gccgtccgca tcagccacat cggccgcaca
151  caaggctcgc aggaactcat gctccacagc ctcggactca tcggcacgcc
201  ctacaaatgg ggcggcagca gcaccgcaac cggcttcgac tgcagcggca
251  tgattcaatt ggtttacaaa aacgccctca acgtcaagct gccgcgcacc
301  gcccgcgaca tggcggcggc aagccgcaaa atccccgaca gccgcctcaa
351  ggccggcgac atcgtattct tcaacaccgg cggcgcacac cgctactcac
401  acgtcggact ctacatcggc aacggcgaat tcatccatgc cccgggcagc
451  ggcaaaacca tcaaaaccga aaactctcc acaccgtttt acgccaaaaa
501  ctacctcgga gcgcatacgt tttttacaga atga
```

This corresponds to the amino acid sequence <SEQ ID 1025; ORF 206.ng>:

```
g206.pep
  1  MFSPDKTLFL CLGALLLASC GTTSGKHRQP KPKQTVRQIQ AVRISHIGRT
 51  QGSQELMLHS LGLIGTPYKW GGSSTATGFD CSGMIQLVYK NALNVKLPRT
101  ARDMAAASRK IPDSRLKAGD IVFFNTGGAH RYSHVGLYIG NGEFIHAPGS
151  GKTIKTEKLS TPFYAKNYLG AHTFFTE*
```

ORF 206 shows 96.0% identity over a 177 aa overlap with a predicted ORF (ORF 206.ng) from *N. gonorrhoeae:*

```
m206/g206

                   10        20        30        40        50        60
m206.pep   MFEPDKTLFLCLSALLLASCGTTSGKHRQPKPKQTVRQIQAVRISHIDRTQGSQELMLHS
           || |||||||||:|||||||||||||||||||||||||||||||||| ||||||||||||
g206       MFSPDKTLFLCLGALLLASCGTTSGKHRQPKPKQTVRQIQAVRISHIGRTQGSQELMLHS
                   10        20        30        40        50        60

                   70        80        90       100       110       120
m206.pep   LGLIGTPYKWGGSSTATGFDCSGMIQFVYKNALNVKLPRTARDMAAASRKIPDSRXKAGD
           ||||||||||||||||||||||||||:|||||||||||||||||||||||||||| ||||
g206       LGLIGTPYKWGGSSTATGFDCSGMIQLVYKNALNVKLPRTARDMAAASRKIPDSRLKAGD
                   70        80        90       100       110       120

                  130       140       150       160       170
m206.pep   LVFFNTGGAHRYSHVGLYIGNGEFIHAPSSGKTIKTEKLSTPFYAKNYLGAHTFFTEX
           :||||||||||||||||||||||||||||:|||||||||||||||||||||||||||
g206       IVFFNTGGAHRYSHVGLYIGNGEFIHAPGSGKTIKTEKLSTPFYAKNYLGAHTFFTE
                  130       140       150       160       170
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1026>:

```
a206.seq
  1  ATGTTTCCCC CCGACAAAAC CCTTTTCCTC TGTCTCAGCG CACTGCTCCT
 51  CGCCTCATGC GGCACGACCT CCGGCAAACA CCGCCAACCG AAACCCAAAC
101  AGACAGTCCG GCAAATCCAA GCCGTCCGCA TCAGCCACAT CGACCGCACA
151  CAAGGCTCGC AGGAACTCAT GCTCCACAGC CTCGGACTCA TCGGCACGCC
201  CTACAAATGG GGCGGCAGCA GCACCGCAAC CGGCTTCGAT TGCAGCGGCA
251  TGATTCAATT CGTTTACAAA AACGCCCTCA ACGTCAAGCT GCCGCGCACC
301  GCCCGCGACA TGGCGGCGGC AAGCCGCAAA ATCCCCGACA GCCGCCTTAA
351  GGCCGGCGAC CTCGTATTCT TCAACACCGG CGGCGCACAC CGCTACTCAC
401  ACGTCGGACT CTATATCGGC AACGGCGAAT TCATCCATGC CCCCAGCAGC
451  GGCAAAACCA TCAAAACCGA AAACTCTCC ACACCGTTTT ACGCCAAAAA
501  CTACCTCGGC GCACATACTT TCTTTACAGA ATGA
```

This corresponds to the amino acid sequence <SEQ ID 1027; ORF 206.a>:

a206.pep

```
  1  MFFPDKTLFL CLSALLLASC GTTSGKHHQP KPKQTVRQIQ AVRISHIDRT
 51  QGSQELMLHS LGLIGTPYKW GGSSTATGFD CSGMIQFVYK NALNVKLPRT
101  ARDMAAASRK IPDSRLKAGD LVFFNTGGAH RYSHVGLYIG NGEFIHAPSS
151  GKTIKTEKLS TPFYAKNYLG AHTFFTE*
```

m206/a206 ORFs 206 and 206.a showed a 99.4% identity in 177 aa overlap

```
                    10        20        30        40        50        60
m206.pep    MFFPDKTLFLCLSALLLASCGTTSGKHHQPKPKQTVRQIQAVRISHIDRTQGSQELMLHS
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a206        MFFPDKTLFLCLSALLLASCGTTSGKHHQPKPKQTVRQIQAVRISHIDRTQGSQELMLHS
                    10        20        30        40        50        60

                    70        80        90       100       110       120
m206.pep    LGLIGTPYKWGGSSTATGFDCSGMIQFVYKNALNVKLPRTARDMAAASRKIPDSRXKAGD
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||
a206        LGLIGTPYKWGGSSTATGFDCSGMIQFVYKNALNVKLPRTARDMAAASRKIPDSRLKAGD
                    70        80        90       100       110       120

                   130       140       150       160       170
m206.pep    LVFFNTGGAHRYSHVGLYIGNGEFIHAPSSGKTIKTEKLSTPFYAKNYLGAHTFFTEX
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a206        LVFFNTGGAHRYSHVGLYIGNGEFIHAPSSGKTIKTEKLSTPFYAKNYLGAHTFFTEX
                   130       140       150       160       170
```

287

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1028>:

```
m287.seq
   1  ATGTTTAAAC GCAGCGTAAT CGCAATGGCT TGTATTTTTG CCCTTTCAGC
  51  CTGCGGGGGC GGCGGTGGCG GATCGCCCGA TGTCAAGTCG GCGGACACGC
 101  TGTCAAAACC TGCCGCCCCT GTTGTTTCTG AAAAAGAGAC AGAGGCAAAG
 151  GAAGATGCGC CACAGGCAGG TTCTCAAGGA CAGGGCGCGC CATCCGCACA
 201  AGGCAGTCAA GATATGGCGG CGGTTTCGGA AGAAAATACA GGCAATGGCG
 251  GTGCGGTAAC AGCGGATAAT CCCAAAAATG AAGACGAGGT GGCACAAAAT
 301  GATATGCCGC AAAATGCCGC CGGTACAGAT AGTTCGACAC CGAATCACAC
 351  CCCGGATCCG AATATGCTTG CCGGAAATAT GGAAAATCAA GCAACGGATG
 401  CCGGGGAATC GTCTCAGCCG GCAAACCAAC CGGATATGGC AAATGCGGCG
 451  GACGGAATGC AGGGGGACGA TCCGTCGGCA GGCGGGCAAA ATGCCGGCAA
 501  TACGGCTGCC CAAGGTGCAA ATCAAGCCGG AAACAATCAA GCCGCCGGTT
 551  CTTCAGATCC CATCCCCGCG TCAAACCCTG CACCTGCGAA TGGCGGTAGC
 601  AATTTTGGAA GGGTTGATTT GGCTAATGGC GTTTTGATTG ACGGGCCGTC
 651  GCAAAATATA ACGTTGACCC ACTGTAAAGG CGATTCTTGT AGTGGCAATA
 701  ATTTCTTGGA TGAAGAAGTA CAGCTAAAAT CAGAATTTGA AAAATTAAGT
 751  GATGCAGACA AAATAAGTAA TTACAAGAAA GATGGGAAGA ATGATAAATT
 801  TGTCGGTTTG GTTGCCGATA GTGTGCAGAT GAAGGGAATC AATCAATATA
 851  TTATCTTTTA TAAACCTAAA CCCACTTCAT TTGCGCGATT TAGGCGTTCT
 901  GCACGGTCGA GGCGGTCGCT TCCGGCCGAG ATGCCGCTGA TTCCCGTCAA
 951  TCAGGCGGAT ACGCTGATTG TCGATGGGGA AGCGGTCAGC CTGACGGGGC
1001  ATTCCGGCAA TATCTTCGCG CCCGAAGGGA ATTACCGGTA TCTGACTTAC
1051  GGGGCGGAAA AATTGCCCGG CGGATCGTAT GCCCTTCGTG TTCAAGGCGA
1101  ACCGGCAAAA GGCGAAATGC TTGCGGGCGC GGCCGTGTAC AACGGCGAAG
1151  TACTGCATTT CCATACGGAA AACGGCCGTC CGTACCCGAC CAGGGGCAGG
1201  TTTGCCGCAA AAGTCGATTT CGGCAGCAAA TCTGTGGACG GCATTATCGA
1251  CAGCGGCGAT GATTTGCATA TGGGTACGCA AAAATTCAAA GCCGCCATCG
1301  ATGGAAACGG CTTTAAGGGG ACTTGGACGG AAAATGGCAG CGGGGATGTT
1351  TCCGGAAAGT TTTACGGCCC GGCCGGCGAG GAAGTGGCGG GAAAATACAG
1401  CTATCGCCCG ACAGATGCGG AAAAGGGCGG ATTCGGCGTG TTTGCCGGCA
```

```
1451  AAAAAGAGCA GGATTGA
```

This corresponds to the amino acid sequence <SEQ ID 1029; ORF 287>:

```
m287.pep
      1  MFKRSVIAMA CIFALSACGG GGGGSPDVKS ADTLSKPAAP VVSEKETEAK
     51  LLAPQAGSQG QGAPSAQGSQ DMAAVSEENT GNGGAVTADN PKNEDEVAQN
    101  DMPQNAAGTD SSTPNHTPDP NMLAGNMENQ ATDAGESSQP ANQPDMANAA
    151  DGMQGDDPSA GGQNAGNTAA QGANQAGNNQ AAGSSDPIPA SNPAPANGGS
    201  NFGRVDLANG VLIDGPSQNI TLTHCKGDSC SGNNFLDEEV QLKSEFEKLS
    251  DADKISNYKK DGKNDKFVGL VADSVQMKGI NQYIIFYKPK PTSFARFRRS
    301  ARSRRSLPAE MPLIPVNQAD TLIVDGEAVS LTGHSGNIFA PEGNYRYLTY
    351  GAEKLPGGSY ALRVQGEPAK GEMLAGAAVY NGEVLHFHTE NGRPYPTRGR
    401  FAAKVDFGSK SVDGIIDSGD DLHMGTQKFK AAIDGNGFKG TWTENGSGDV
    451  SGKFYGPAGE EVAGKYSYRP TDAEKGGFGV FAGKKEQD*
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1030>:

```
g287.seq
      1  atgtttaaac gcagtgtgat tgcaatggct tgtatttttc cctttcagc
     51  ctgtcggggc ggcggtggcg gatcgcccga tgtcaagtcg gcggacacgc
    101  cgtcaaaacc ggccgccccc gttgttgctg aaaatgccgg ggaaggggtg
    151  ctgccgaaag aaaagaaaga tgaggaggca gcgggcggtg cgccgcaagc
    201  cgatacgcag gacgcaaccg ccggagaagg cagccaagat atggcggcag
    251  tttcggcaga aaatacaggc aatggcggtg cggcaacaac ggacaacccc
    301  aaaaatgaag acgcggggcc gcaaaatgat atgccgcaaa atgccgccga
    351  atccgcaaat caaacaggga acaaccaacc cgccggttct tcagattccg
    401  cccccgcgtc aaacccigcc cctgccaatg gcggtagcga ttttggaagg
    451  acgaacctgg ccaattctgt tgtgattgac ggaccgtcgc aaaatataac
    501  gttgacccac tgtaaaggcg attcttgtaa tggtgataat ttattggatg
    551  aagaagcacc gtcaaaatca gaatttgaaa aattaagtga tgaagaaaaa
    601  attaagcgat ataaaaaaga cgagcaacgg gagaatttig tcggtttggt
    651  tgctgacagg gtaaaaaagg atggaactaa caaatatatc atcttctata
    701  cggacaaacc acctactcgt tctgcacggt cgaggaggtc gcttccggcc
    751  gagattccgc tgattcccgt caatcaggcc gatacgctga ttgtggatgg
    801  ggaagcggtc agcctgacgg ggcattccgg caatatcttc gcgcccgaag
    851  ggaattaccg gtatctgact tacggggcgg aaaaattgcc cggcggatcg
    901  tatgccctcc gtgtgcaagg cgaaccggca aaaggcgaaa tgcttgttgg
    951  cacggccgtg tacaacggcg aagtgctgca tttccatatg gaaaacggcc
   1001  gtccgtaccc gtccggaggc aggtttgccg caaaagtcga tttcggcagc
   1051  aaatctgtgg acggcattat cgacagcggc gatgatttgc atatgggtac
   1101  gcaaaaattc aaagccgcca tcgatggaaa cggctttaag ggcacttgga
   1151  cggaaaatgg cggcggggat gtttccggaa ggttttacgg cccggccggc
   1201  gaggaagtgg cgggaaaata cagctatcgc ccgacagatg ctgaaaaggg
   1251  cggattcggc gtgtttgccg gcaaaaaaga tcggcattga
```

This corresponds to the amino acid sequence <SEQ ID 1031; ORF 287.ng>:

```
g287.pep
      1  MFKRSVIAMA CIFPLSACGG GGGGSPDVKS ADTPSKPAAP VVAENAGEGV
     51  LPKEKKDEEA AGGAPQADTQ DATAGEGSQD MAAVSAENTG NGGAATTDNP
    101  KNEDAGAQND MPQNAAESAN QTGNNQPAGS SDSAPASNPA PANGGSDFGR
    151  TNVGNSVVID GPSQNITLTH CKGDSCNGDN LLDEEAPSKS EFEKLSDEEK
    201  IKRYKKDEQR ENFVGLVADR VKKDGTNKYI IFYTDKPPTR SARSRRSLPA
    251  EIPLIPVNQA DTLIVDGEAV SLTGHSGNIF APEGNYRYLT YGAEKLPGGS
    301  YALRVQGEPA KGEMLVGTAV YNGEVLHFHM ENGRPYPSGG RFAAKVDFGS
    351  KSVDGIIDSG DDLHMGTQKF KAAIDGNGFK GTWTENGGGD VSGRFYGPAG
    401  EEVAGKYSYR PTDAEKGGFG VFAGKKDRD*
```

m287/g287 ORFs 287 and 287.ng showed a 70.1% identity in 499 aa overlap

```
                    10         20         30         40                    49
m287.pep    MFKRSVIAMACIFALSACGGGGGGSPDVKSADTLSKPAAPVVSE-----------KETEA
            |||||||||||| ||||||||||||||||||| ||||||||:|            |: ||
g287        MFKRSVIAMACIFFLSACGGGGGGSPNVKSADTPSKPAAPVVAENAGEGVLPKEKKDEEA
                    10         20         30         40         50         60

           50         60         70         80         90        100       109
m287.pep    KEDAPQAGSQGQGAPSAQGSQDMAAVSEENTGNGGAVTADNPKNEDEVAQNDMPQNAAGT
              |||| :|    | :::||||||||| ||||||||:|:|||||||  ||||||||||
g287        AGGAPQADTQD--ATAGEGSQDMAAVSAENTGNGGAATTDNPKNEDAGAQNDMPQNAA--
                    70         80         90        100        110

          110        120        130        140        150        160       169
m287.pep    DSSTPNHTPDPNMLAGNMENQATDAGESSQPANQPDMANAADGMQGDDPSAGGQNAGNTA

g287        ------------------------------------------------------------

          170        180        190        200        210        220       229
m287.pep    AQGANQAGNNQAAGSSDPIPASNPAPANGGSNFGRVDLANGVLIDGPSQNITLTHCKGDS
             ::|||:|||| |||||  |||||||||||||:|||::::|:|:||||||||||||||||||
g287        -ESANQTGNNQPAGSSDSAPASNPAPANGGSDFGRTNVGNSVVIDGPSQNITLTHCKGDS
              120        130        140        150        160        170

          230        240        250        260        270        280       289
m287.pep    CSGNNFLDEEVQLKSEFEKLSDADKISNYKKDGKNDKFVGLVADSVQMKGINQYIIFYKP
            |:|:|:||||:  ||||||||| :||: |||| : ::||||||| |:   | |:|||||
g287        CNGDNLLDEEAPSKSEFEKLSDEEKIKRYKKDEQRENFVGLVADRVKKDGTNKYIIFYTD
              180        190        200        210        220        230

          290        300        310        320        330        340       349
m287.pep    KPTSFARFRRSARSRRSLPAEMPLIPVNQADTLIVDGEAVSLTGHSGNIFAPEGNYRYLT
            || :       ||||||||||||:||||||||||||||||||||||||||||||||||||||
g287        KPPT-----RSARSRRSLPAEIPLIPVNQADTLIVDGEAVSLTGHSGNIFAPEGNYRYLT
                    240        250        260        270        280        290

          350        360        370        380        390        400       409
m287.pep    YGAEKLPGGSYALRVQGEPAKGEMLAGAAVYNGEVLHFHTENGRPYPTRGRFAAKVDFGS
            ||||||||||||||||||||||||:|:|||||||||||| |||||||: |||||||||||
g287        YGAEKLPGGSYALRVQGEPAKGEMLVGTAVYNGEVLHFHMENGRPYPSGGRFAAKVDFGS
                    300        310        320        330        340        350

          410        420        430        440        450        460       469
m287.pep    KSVDGIIDSGDDLHMGTQKFKAAIDGNGFKGTWTENGSGDVSGKFYGPAGEEVAGKYSYR
            |||||||||||||||||||||||||||||||||||:|||||:||||||||||||||||||
g287        KSVDGIIDSGDDLHMGTQKFKAAIDGNGFKGTWTENGGGDVSGRFYGPAGEEVAGKYSYR
                    360        370        380        390        400        410

          470        480        489
m287.pep    PTDAEKGGFGVFAGKKEQDX
            |||||||||||||||||::||
g287        PTDAEKGGFGVFAGKKDRDX
                    420        430
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1032>:

```
a287.seq
      1  ATGTTTAAAC GCAGTGTGAT TGCAATGGCT TGTATTGTTG CCCTTTCAGC
     51  CTGTGGGGGC GGCGGTGGCG GATCGCCCGA TGTTAAGTCG GCGGACACGC
    101  TGTCAAAACC TGCCGCCCCT GTTGTTACTG AAGATGTCGG GGAAGAGGTG
    151  CTGCCGAAAG AAAAGAAAGA TGAGGAGGCG GTGAGTGGTG CGCCGCAAGC
    201  CGATACGCAG GACGCAACCG CCGGAAAAGG CGGTCAAGAT ATGGCGGCAG
    251  TTTCGGCAGA AAATACAGGC AATGGCGGTG CGGCAACAAC GGATAATCCC
```

```
 301  GAAAATAAAG ACGAGGGACC GCAAAATGAT ATGCCGCAAA ATGCCGCCGA
 351  TACAGATAGT TCGACACCGA ATCACACCCC TGCACCGAAT ATGCCAACCA
 401  GAGATATGGG AAACCAAGCA CCGGATGCCG GGGAATCGGC ACAACCGGCA
 451  AACCAACCGG ATATGGCAAA TGCGGCGGAC GGAATGCAGG GGGACGATCC
 501  GTCGGCAGGG GAAAATGCCG GCAATACGGC AGATCAAGCT GCAAATCAAG
 551  CTGAAAACAA TCAAGTCGGC GGCTCTCAAA ATCCTGCCTC TTCAACCAAT
 601  CCTAACGCCA CGAATGGCGG CAGCGATTTT GGAAGGATAA ATGTAGCTAA
 651  TGGCATCAAG CTTGACAGCG GTTCGGAAAA TGTAACGTTG ACACATTGTA
 701  AAGACAAAGT ATGCGATAGA GATTTCTTAG ATGAAGAAGC ACCACCAAAA
 751  TCAGAATTTG AAAAATTAAG TGATGAAGAA AAAATTAATA AATATAAAAA
 801  AGACGAGCAA CGAGAGAATT TTGTCGGTTT GGTTGCTGAC AGGGTAGAAA
 851  AGAATGGAAC TAACAAATAT GTCATCATTT ATAAAGACAA GTCCGCTTCA
 901  TCTTCATCTG CGCGATTCAG GCGTTCTGCA CGGTCGAGGC GGTCGCTTCC
 951  GGCCGAGATG CCGCTGATTC CCGTCAATCA GGCGGATACG CTGATTGTCG
1001  ATGGGGAAGC GGTCAGCCTG ACGGGGCATT CCGGCAATAT CTTCGCGCCC
1051  GAAGGGAATT ACCGGTATCT GACTTACGGG GCGGAAAAAT TGTCCGGCGG
1101  ATCGTATGCC CTCAGTGTGC AAGGCGAACC GGCAAAAGGC GAAATGCTTG
1151  CGGGCACGGC CGTGTACAAC GGCGAAGTGC TGCATTTCCA TATGGAAAAC
1201  GGCCGTCCGT CCCCGTCCGG AGGCAGGTTT GCCGCAAAAG TCGATTTCGG
1251  CAGCAAATCT GTGGACGGCA TTATCGACAG CGGCGATGAT TTGCATATGG
1301  GTACGCAAAA ATTCAAAGCC GTTATCGATG GAAACGGCTT TAAGGGGACT
1351  TGGACGGAAA ATGGCGGCGG GGATGTTTCC GGAAGGTTTT ACGGCCCGGC
1401  CGGCGAAGAA GTGGCGGGAA AATACAGCTA TCGCCCGACA GATGCGGAAA
1451  AGGGCGGATT CGGCGTGTTT GCCGGCAAAA AAGAGCAGGA TTGA
```

This corresponds to the amino acid sequence <SEQ ID 1033; ORF 287.a>:

```
a287.pep
   1  MFKRSVIAMA CIVALSACGG GGGGSPDVKS ADTLSKPAAP VVTEDVGEEV
  51  LPKEKKDEEA VSGAPQADTQ DATAGKGGQD MAAVSAENTG NGGAATTDNP
 101  ENKDEGPQND MPQNAADTDS STPNHTPAPN MPTRDMGNQA PDAGESAQPA
 151  NQPDMANAAD GMQGDDPSAG ENAGNTADQA ANQAENNQVG GSQNPASSTN
 201  PNATNGGSDF GRINVANGIK LDSGSENVTL THCKDKVCDR DFLDEEAPPK
 251  SEFEKLSDEE KINKYKKDEQ RENFVGLVAD RVEKNGTNKY VIIYKDKSAS
 301  SSSARFRRSA RSRRSLPAEM PLIPVNQADT LIVDGEAVSL TGHSGNIFAP
 351  EGNYRYLTYG AEKLSGGSYA LSVQGEPAKG EMLAGTAVYN GEVLHFHMEN
 401  GRPSPSGGRF AAKVDFGSKS VDGIIDSGDD LHMGTQKFKA VIDGNGFKGT
 451  WTENGGGDVS GRFYGPAGEE VAGKYSYRPT DAEKGGFGVF AGKKEQD*
```

```
m287/a287     ORFs 287 and 287.a showed a 77.2% identity in 501 aa overlap

                        10        20        30        40                  49
m287.pep      MFKRSVIAMACIFALSACGGGGGGSPDVKSADTLSKPAAPVVSE-----------KETEA
              |||||||||||| |||||||||||||||||||||||||||||:|           |: ||
a287          MFKRSVIAMACIVALSACGGGGGGSPDVKSADTLSKPAAPVVTEDVGEEVLPKEKKDEEA
                      10        20        30        40        50        60

             50        60        70        80        90       100       109
m287.pep      KEDAPQAGSQGQGAPSAQGSQDMAAVSEENTGNGGAVTADNPKNEDEVAQNDMPQNAAGT
                 |||| :|    | :::|:||||||| ||||||||:|:|||:|:||  ||||||||| |
a287          VSGAPQADTQ--DATAGKGGQDMAAVSAENTGNGGAATTDNPENKDEGPQNDMPQNAADT
                      70        80        90       100       110

            110       120       130       140       150       160       169
m287.pep      DSSTPNHTPDPNMLAGNMENQATDAGESSQPANQPDMANAADGMQGDDPSAGGQNAGNTA
              |||||||||| ||| :  :| ||| |||||:||||||||||||||||||||||| :|||||
a287          DSSTPNHTPAPNMPTRDMGNQAPDAGESAQPANQPDMANAADGMQGDDPSAG-ENAGNTA
               120       130       140       150       160       170

            170       180       190       200       210       220       229
m287.pep      AQGANQAGNNQAAGSSDPIPASNPAPANGGSNFGRVDLANGVLIDGPSQNITLTHCKGDS
               |:|||| |||::||::|   ::||  :||||:|||:::|||: :|: |:|:||||||
a287          DQAANQAENKQVGGSQNPASSTNPNATNGGSDFGRINVANGIKLDSGSENVTLTHCKDKV
```

```
               180       190       200       210       220       230

            230       240       250       260       270       280      289
m287.pep    CSGNKFLDEEVQLKSEFEKLSDADKISNYKKDGKNDKFVGLVADSVQMKGINQYIIFYKP
            ::  :|||||:  ||||||||| :||::|||| :  ::||||||| |: :| |:|:|:||
a287        CD-KDFLDEEAPPKSEFEKLSDEEKINKYKKDEQRENFVGLVADRVEKNGTNKYVIIYKD
             240       250       260       270       280       290

            290       300       310       320       330       340
m287.pep    KP--TSFAKFRRSARSRRSLPAEMPLIPVNQADTLIVDGEAVSLTGHSGNIFAPEGNYRY
            :   :| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
a287        KSASSSSARFRRSARSRRSLPAEMPLIPVNQADTLIVDGEAVSLTGHSGNIFAPEGNYRY
             300       310       320       330       340       350

            350       360       370       380       390       400
m287.pep    LTYGAEKLPGGSYALRVQGEPAKGEMLAGAAVYNGEVLHFHTENGRPYPTRGRFAAKVDF
            |||||||| |||||| |||||||||||||:|:|||||||||||| ||||| |: |||||||||
a287        LTYGAEKLSGGSYALSVQGEPAKGEMLAGTAVYNGEVLHFHMENGRPSPSGGRFAAKVDF
             360       370       380       390       400       410

            410       420       430       440       450       460
m287.pep    GSKSVDGIIDSGDDLHMGTQKFKAAIDGNGFKGTWTENGSGDVSGKFYGPAGEEVAGKYS
            ||||||||||||||||||||||||:|||:||||||||||||:|||||:||||||||||||||
a287        GSKSVDGIIDSGDDLHMGTQKFKAVIDGNGFKGTWTENGGGDVSGRFYGPAGEEVAGKYS
             420       430       440       450       460       470

            470       480      489
m287.pep    YRPTDAEKGGFGVFAGKKEQDX
            ||||||||||||||||||||||
a287        YRPTDAEKGGFGVFAGKKEQDX
             480       490
```

406

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1034>:

```
m406.seq
      1  ATGCAAGCAC GGCTGCTGAT ACCTATTCTT TTTTCAGTTT TTATTTTATC
     51  CGCCTGCGGG ACACTGACAG GTATTCCATC GCATGGCGGA GGTAAACGCT
    101  TTGCGGTCGA ACAAGAACTT GTGGCCGCTT CTGCCAGAGC TGCCGTTAAA
    151  GACATGGATT TACAGGCATT ACACGGACGA AAAGTTGCAT TGTACATTGC
    201  CACTATGGGC GACCAAGGTT CAGGCAGTTT GACAGGGGGT CGCTACTCCA
    251  TTGATGCACT GATTCGTGGC GAATACATAA ACAGCCCTGC CGTCCGTACC
    301  GATTACACCT ATCCACGTTA CGAAACCACC GCTGAAACAA CATCAGGCGG
    351  TTTGACAGGT TTAACCACTT CTTTATCTAC ACTTAATGCC CCTGCACTCT
    401  CTCGCACCCA ATCAGACGGT AGCGGAAGTA AAAGCAGTCT GGGCTTAAAT
    451  ATTGGCGGGA TGGGGGATTA TCGAAATGAA ACCTTGACGA CTAACCCGCG
    501  CGACACTGCC TTTCTTTCCC ACTTGGTACA GACCGTATTT TTCCTGCGCG
    551  GCATAGACGT TGTTTCTCCT GCCAATGCCG ATACAGATGT GTTTATTAAC
    601  ATCGACGTAT TCGGAACGAT ACGCAACAGA ACCGAAATGC ACCTATACAA
    651  TGCCGAAACA CTGAAAGCCC AAACAAAACT GGAATATTTC GCAGTAGACA
    701  GAACCAATAA AAAATTGCTC ATCAAACCAA AAACCAATGC GTTTGAAGCT
    751  GCCTATAAAG AAAATTACGC ATTGTGGATG GGGCCGTATA AAGTAAGCAA
    801  AGGAATTAAA CCGACGGAAG GATTAATGGT CGATTTCTCC GATATCCGAC
    851  CATACGGCAA TCATACGGGT AACTCCGCCC CATCCGTAGA GGCTGATAAC
    901  AGTCATGAGG GGTATGGATA CAGCGATGAA GTAGTGCGAC AACATAGACA
    951  AGGACAACCT TGA
```

This corresponds to the amino acid sequence <SEQ ID 1035; ORF 406>:

m406.pep

```
  1  MQARLLIPIL FSVFILSACG TLTGIPSHGG GKRFAVEQEL VAASARAAVK
 51  DMDLQALHGR KVALYIATMG DQGSGSLTGG RYSIDALIRG EYINSPAVRT
101  DYTYPRYETT AETTSGGLTG LTTSLSTLNA PALSRTQSDG SGSKSSLGLN
151  IGGMGDYRNE TLTTNPRDTA FLSHLVQTVF FLRGIDVVSP ANADTDVFIN
201  IDVFGTIRNR TEMHLYNAFT LKAQTKLEYF AVDRTNKKLL IKPKTNAFEA
251  AYKENYALWM GPYKVSKGIK PTEGLMVDFS DIRPYGNHTG NSAPSVEADN
301  SHEGYGYSDE VVRQHRQGQP *
```

The following partial DNA sequence was identified in *N. gonorrhoeae* <SEQ ID 1036>:

g406.seq

```
  1  ATGCGGGCAC GGCTGCTGAT ACCTATTCTT TTTTCAGTTT TTATTTTATC
 51  CGCCTGCGGG ACACTGACAG GTATTCCATC GCATGGCGGA GGCAAACGCT
101  TCGCGGTCGA ACAAGAACTT GTGGCCGCTT CTGCCAGAGC TGCCGTTAAA
151  GACATGGATT TACAGGCATT ACACGGACGA AAAGTTGCAT TGTACATTGC
201  AACTATGGGC GACCAAGGTT CAGGCAGTTT GACAGGGGGT CGCTACTCCA
251  TTGATGCACT GATTCGCGGC GAATACATAA ACAGCCCTGC CGTCCGCACC
301  GATTACACCT ATCCGCGTTA CGAAACCACC GCTGAAACAA CATCAGGCGG
351  TTTGACGGGT TTAACCACTT CTTTATCTAC ACTTAATGCC CCTGCACTCT
401  CGCGCACCCA ATCAGACGGT AGCGGAAGTA GGAGCAGTCT GGGCTTAAAT
451  ATTGGCGGGA TGGGGGATTA TCGAAATGAA ACCTTGACGA CCAACCCGCG
501  CGACACTGCC TTTCTTTCCC ACTTGGTGCA GACCGTATTT TTCCTGCGCG
551  GCATAGACGT TGTTTCTCCT GCCAATGCCG ATACAGATGT GTTTATTAAC
601  ATCGACGTAT TCGGAACGAT ACGCAACAGA ACCGAAATGC ACCTATACAA
651  TGCCGAAACA CTGAAAGCCC AAACAAAACT GGAATATTTC GCAGTAGACA
701  GAACCAATAA AAAATTGCTC ATCAAACCCA AAACCAATGC GTTTGAAGCT
751  GCCTATAAAG AAAATTACGC ATTGTGGATG GGGCCGTATA AAGTAAGCAA
801  AGGAATCAAA CCGACGGAAG GATTGATGGT CGATTTCTCC GATATCCAAC
851  CATACGGCAA TCATACGGGT AACTCCGCCC CATCCGTAGA GGCTGATAAC
901  AGTCATGAGG GGTATGGATA CAGCGATGAA GCAGTGCGAC AACATAGACA
951  AGGGCAACCT TGA
```

This corresponds to the amino acid sequence <SEQ ID 1037; ORF 406.ng>:

g406.pep

```
  1  MRARLLIPIL FSVFILSACG TLTGIPSHGG GKRFAVEQEL VAASARAAVK
 51  DMDLQALHGR KVALYIATMG DQGSGSLTGG RYSIDALIRG EYINSPAVRT
101  DYTYPRYETT AETTSGGLTG LTTSLSTLNA PALSRTQSDG SGSRSSLGLN
151  IGGMGDYRNE TLTTNPRDTA FLSHLVQTVF FLRGIDVVSP ANADTDVFIN
201  IDVFGTIRNR TEMHLYNAFT LKAQTKLEYF AVDRTNKKLL IKPKTNAFEA
251  AYKENYALWM GPYKVSKGIK PTEGLMVDFS DIQPYGNHTG NSAPSVEADN
301  SHEGYGYSDE AVRQHRQGQP *
```

ORF 406.ng shows 98.8% identity over a 320 aa overlap with a predicted ORF (ORF406.a) from *N. gonorrhoeae:*

g406/m406

```
                    10        20        30        40        50        60
g406.pep    MRARLLIPILFSVFILSACGTLTGIPSHGGGKRFAVEQELVAASARAAVKDMDLQALHGR
            |:||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m406        MQARLLIPILFSVFILSACGTLTGIPSHGGGKRFAVEQELVAASARAAVKDMDLQALHGR
                    10        20        30        40        50        60

                    70        80        90       100       110       120
g406.pep    KVALYIATMGDQGSGSLTGGRYSIDALIRGEYINSPAVRTDYTYPRYETTAETTSGGLTG
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
m406      KVALYIATMGDQGSGSLTGGRYSIDALIRGEYINSPAVRTDYTYPRYETTAETTSGGLTG
                    70        80        90       100       110       120

                   130       140       150       160       170       180
g406.pep  LTTSLSTLNAPALSRTQSDGSGSRSSLGLNIGGMGDYRNETLTTNPRDTAFLSHLVQTVF
          |||||||||||||||||||||||:||||||||||||||||||||||||||||||||||||
m406      LTTSLSTLNAPALSRTQSDGSGSKSSLGLNIGGMGDYRNETLTTNPRDTAFLSHLVQTVF
                   130       140       150       160       170       180

                   190       200       210       220       230       240
g406.pep  FLRGIDVVSPANADTDVFINIDVFGTIRNRTEMHLYNAETLKAQTKLEYFAVDRTNKKLL
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
m406      FLRGIDVVSPANADTDVFINIDVFGTIRNRTEMHLYNAETLKAQTKLEYFAVDRTNKKLL
                   190       200       210       220       230       240

                   250       260       270       280       290       300
g406.pep  IKPKTNAFEAAYKENYALWMGPYKVSKGIKPTEGLMVDFSDIQPYGNHTGNSAPSVEADN
          ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
m406      IKPKTNAFEAAYKENYALWMGPYKVSKGIKPTEGLMVDFSDIRPYGNHTGNSAPSVEADN
                   250       260       270       280       290       300

                   310       320
g406.pep  SHEGYGYSDEAVRQHRQGQPX
          ||||||||||:||||||||||
m406      SHEGYGYSDEVVRQHRQGQPX
                   310       320
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1038>:

```
a406.seq
      1  ATGCAAGCAC GGCTGCTGAT ACCTATTCTT TTTTCAGTTT TTATTTTATC
     51  CGCCTGCGGG ACACTGACAG GTATTCCATC GCATGGCGGA GGTAAACGCT
    101  TCGCGGTCGA ACAAGAACTT GTGGCCGCTT CTGCCAGAGC TGCCGTTAAA
    151  GACATGGATT TACAGGCATT ACACGGACGA AAAGTTGCAT TGTACATTGC
    201  AACTATGGGC GACCAAGGTT CAGGCAGTTT GACAGGGGGT CGCTACTCCA
    251  TTGATGCACT GATTCGTGGC GAATACATAA ACAGCCCTGC CGTCCGTACC
    301  GATTACACCT ATCCACGTTA CGAAACCACC GCTGAAACAA CATCAGGCGG
    351  TTTGACAGGT TTAACCACTT CTTTATCTAC ACTTAATGCC CCTGCACTCT
    401  CGCGCACCCA ATCAGACGGT AGCGGAAGTA AAAGCAGTCT GGGCTTAAAT
    451  ATTGGCGGGA TGGGGGATTA TCGAAATGAA ACCTTGACGA CTAACCCGCG
    501  CGACACTGCC TTTCTTTCCC ACTTGGTACA GACCGTATTT TTCCTGCGCG
    551  GCATAGACGT TGTTTCTCCT GCCAATGCCG ATACGGATGT GTTTATTAAC
    601  ATCGACGTAT TCGGAACGAT ACGCAACAGA ACCGAAATGC ACCTATACAA
    651  TGCCGAAACA CTGAAAGCCC AAACAAAACT GGAATATTTC GCAGTAGACA
    701  GAACCAATAA AAAATTGCTC ATCAAACCAA AAACCAATGC GTTTGAAGCT
    751  GCCTATAAAG AAAATTACGC ATTGTGGATG GGACCGTATA AAGTAAGCAA
    801  AGGAATTAAA CCGACAGAAG GATTAATGGT CGATTTCTCC GATATCCAAC
    851  CATACGGCAA TCATATGGGT AACTCTGCCC CATCCGTAGA GGCTGATAAC
    901  AGTCATGAGG GGTATGGATA CAGCGATGAA GCAGTGCGAC GACATAGACA
    951  AGGGCAACCT TGA
```

This corresponds to the amino acid sequence <SEQ ID 1039; ORF 406.a>:

```
a406.pep
      1  MQARLLIPIL FSVFILSACG TLTGIPSHGG GKRFAVEQEL VAASARAAVK
     51  DMDLQALHGR KVALYIATMG DQGSGSLTGG RYSIDALIRG EYINSPAVRT
    101  DYTYPRYETT AETTSGGLTG LTTSLSTLNA PALSRTQSDG SGSKSSLGLN
    151  IGGMGDYRNE TLTTNPRDTA FLSHLVQTVF FLRGIDVVSP ANADTDVFIN
    201  IDVFGTIRNR TEMHLYNAET LKAQTKLEYF AVDRTNKKLL IKPKTNAFEA
    251  AYKENYALWM GPYKVSKGIK PTEGLMVDFS DIQPYGNHMG NSAPSVEADN
    301  SHEGYGYSDE AVRRHRQGQP *
```

```
m406/a406     ORFs 406 and 406.a showed a 98.8% identity in 320 aa overlap

                       10        20        30        40        50        60
m406.pep      MQARLLIPILFSVFILSACGTLTGIPSHGGGKRFAVEQELVAASARAAVKDMDLQALHGR
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a406          MQARLLIPILFSVFILSACGTLTGIPSHGGGKRFAVEQELVAASARAAVKDMDLQALHGR
                       10        20        30        40        50        60

                       70        80        90       100       110       120
m406.pep      KVALYIATMGDQGSGSLTGGRYSIDALIRGEYINSPAVRTDYTYPRYETTAETTSGGLTG
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a406          KVALYIATMGDQGSGSLTGGRYSIDALIRGEYINSPAVRTDYTYPRYETTAETTSGGLTG
                       70        80        90       100       110       120

                      130       140       150       160       170       180
m406.pep      LTTSLSTLNAPALSRTQSDGSGSKSSLGLNIGGMGDYRNETLTTNPRDTAFLSHLVQTVF
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a406          LTTSLSTLNAPALSRTQSDGSGSKSSLGLNIGGMGDYRNETLTTNPRDTAFLSHLVQTVF
                      130       140       150       160       170       180

                      190       200       210       220       230       240
m406.pep      FLRGIDVVSPANADTDVFINIDVFGTIRNRTEMHLYNAETLKAQTKLEYFAVDRTNKKLL
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
a406          FLRGIDVVSPANADTDVFINIDVFGTIRNRTEMHLYNAETLKAQTKLEYFAVDRTNKKLL
                      190       200       210       220       230       240

                      250       260       270       280       290       300
m406.pep      IKPKTNAFEAAYKENYALWMGPYKVSKGIKPTEGLMVDFSDIRPYGNHTGNSAPSVEADN
              ||||||||||||||||||||||||||||||||||||||||||:||||| |||||||||||
a406          IKPKTNAFEAAYKENYALWMGPYKVSKGIKPTEGLMVDFSDIQPYGNHMGNSAPSVEADN
                      250       260       270       280       290       300

                      310       320
m406.pep      SHEGYGYSDEVVRQHRQGQPX
              ||||||||||:||:|||||||
a406          SHEGYGYSDEAVRRHRQGQPX
                      310       320
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1040>:

```
m726.seq
      1  ATGACCATCT ATTTCAAAAA CGGCTTTTAC GACGACACAT TGGGCGGCAT
     51  CCCCGAAGGC GCGGTTGCCG TCCGCGCCGA AGAATACGCC GCCCTTTTGG
    101  CAGGACAGGC GCAGGGCGGG CAGATTGCCG CAGATTCCGA CGGCCGCCCC
    151  GTTTTAACCC CGCCGCGCCC GTCCGATTAC CACGAATGGG ACGGCAAAAA
    201  ATGGAAAATC AGCAAAGCCG CCGCCGCCGC CCGTTTCGCC AAACAAAAAA
    251  CCGCCTTGGC ATTCCGCCTC GCGGAAAAGG CGGACGAACT CAAAAACAGC
    301  CTCTTGGCGG GCTATCCCCA AGTGGAAATC GACAGCTTTT ACAGGCAGGA
    351  AAAAGAAGCC CTCGCGCGGC AGGCGGACAA CAACGCCCCG ACCCCGATGC
    401  TGGCGCAAAT CGCCGCCGCA AGGGGCGTGG AATTGGACGT TTTGATTGAA
    451  AAAGTTATCG AAAAATCCGC CCGCCTGGCT GTTGCCGCCG GCGCGATTAT
    501  CGGAAAGCGT CAGCAGCTCG AAGACAAATT GAACACCATC GAAACCGCGC
    551  CCGGATTGGA CGCGCTGGAA AAGGAAATCG AAGAATGGAC GCTAAACATC
    601  GGCTGA
```

This corresponds to the amino acid sequence <SEQ ID 1041; ORF 726>:

```
m726.pep
      1  MTIYFKNGFY DDTLGGIPEG AVAVRAEEYA ALLAGQAQGG QIAADSDGRP
     51  VLTPPRPSDY HEWDGKKWKI SKAAAAARFA KQKTALAFRL AEKADELKNS
```

```
101  LLAGYPQVEI DSFYRQEKEA LARQADNNAP TPMLAQIAAA RGVELDVLIE
151  KVIEKSARLA VAAGAIIGKR QQLEDKLNTI ETAPGLDALE KEIEEWTLNI
201  G*
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1042>:

m907-2.seq

```
  1  ATGAGAAAAC CGACCGATAC CCTACCCGTT AATCTGCAAC GCCGCCGCCT
 51  GTTGTGTGCC GCCGGTGCGT TGTTGCTCAG TCCTCTGGCG CACGCCGGCG
101  CGCAACGTGA GGAAACGCTT GCCGACGATG TGGCTTCCGT GATGAGGAGT
151  TCTGTCGGCA GCGTCAATCC GCCGAGGCTG GTGTTTGACA ATCCGAAAGA
201  GGGCGAGCGT TGGTTGTCTG CCATGTCGGC ACGTTTGGCA AGGTTCGTCC
251  CCGAGGAGGA GGAGCGGCGC AGGCTGCTGG TCAATATCCA GTACGAAAGC
301  AGCCGGGCCG GTTTGGATAC GCAGATTGTG TTGGGGCTGA TTGAGGTGGA
351  AAGCGCGTTC CGCCAGTATG CAATCAGCGG TGTCGGCGCG CGCGGCCTGA
401  TGCAGGTTAT GCCGTTTTGG AAAAACTACA TCGGCAAACC GGCGCACAAC
451  CTGTTCGACA TCCGCACCAA CCTGCGTTAC GGCTGTACCA TCCTGCGCCA
501  TTACCGGAAT CTTGAAAAAG GCAACATCGT CCGCGCGCTT GCCCGCTTTA
551  ACGGCAGCTT GGGCAGCAAT AAATATCCGA ACGCCGTTTT GGGCGCGTGG
601  CGCAACCGCT GGCAGTGGCG TTGA
```

This corresponds to the amino acid sequence <SEQ ID 1043; ORF 907-2>:

m907-2.pep

```
  1  MRKPTDTLPV NLQRRRLLCA AGALLLSPLA HAGAQREETL ADDVASVMRS
 51  SVGSVNPPRL VFDNPKEGER WLSAMSARLA RFVPEEEERR RLLVNIQYES
101  SRAGLDTQIV LGLIEVESAF RQYAISGVGA RGLMQVMPFW KNYIGKPAHN
151  LFDIRTNLRY GCTILRHYRN LEKGNIVRAL ARFNGSLGSN KYPNAVLGAW
201  RNRWQWR*
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1044>:

m953.seq

```
  1  ATGAAAAAAA TCATCTTCGC CGCACTCGCA GCCGCCGCCA TCAGTACTGC
 51  CTCCGCCGCC ACCTACAAAG TGGACGAATA TCACGCCAAC GCCCGTTTCG
101  CCATCGACCA TTTCAACACC AGCACCAACG TCGGCGGTTT TTACGGTCTG
151  ACCGGTTCCG TCGAGTTCGA CCAAGCAAAA CGCGACGGTA AAATCGACAT
201  CACCATCCCC ATTGCCAACC TGCAAAGCGG TTCGCAACAC TTTACCGACC
251  ACCTGAAATC AGCCGACATC TTCGATGCCG CCCAATATCC GGACATCCGC
301  TTTGTTTCCA CCAAATTCAA CTTCAACGGC AAAAAACTGG TTTCCGTTGA
351  CGGCAACCTG ACCATGCACG GCAAAACCGC CCCCGTCAAA CTCAAAGCCG
401  AAAAATTCAA CTGCTACCAA AGCCCGATGG AGAAAACCGA AGTTTGTGGC
451  GGCGACTTCA GCACCACCAT CGACCGCACC AAATGGGGCA TGGACTACCT
501  CGTTAACGTT GGTATGACCA AAAGCGTCCG CATCGACATC CAAATCGAGG
551  CAGCCAAACA ATAA
```

This corresponds to the amino acid sequence <SEQ ID 1045; ORF 953>:

m953.pep

```
  1  MKKIIFAALA AAAISTASAA TYKVDEYHAN ARFAIDHFNT STNVGGFYGL
 51  TGSVEFDQAK RDGKIDITIP IANLQSGSQH FTDHLKSADI FDAAQYPDIR
101  FVSTKFNFNG KKLVSVDGNL TMHGKTAPVK LKAEKFNCYQ SPMEKTEVCG
151  GDFSTTIDRT KWGMDYLVNV GMTKSVRIDI QIEAAKQ*
```

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1046>:

orf1-1.seq

1 ATGAAAACAA CCGACAAACG GACAACCGAA ACACACCGCA AAGCCCCGAA
51 AACCGGCCGC ATCCGCTTCT CGCCTGCTTA CTTAGCCATA TGCCTGTCGT
101 TCGGCATTCT TCCCCAAGCC TGGGCGGGAC ACACTTATTT CGGCATCAAC
151 TACCAATACT ATCGCGACTT TGCCGAAAAT AAAGGCAAGT TTGCAGTCGG
201 GGCGAAAGAT ATTGAGGTTT ACAACAAAAA AGGGGAGTTG GTCGGCAAAT
251 CAATGACAAA AGCCCCGATG ATTGATTTTT CTGTGGTGTC GCGTAACGGC
301 GTGGCGGCAT TGGTGGGCGA TCAATATATT GTGAGCGTGG CACATAACGG
351 CGGCTATAAC AACGTTGATT TTGGTGCGGA AGGAAGAAAT CCCGATCAAC
401 ATCGTTTTAC TTATAAAATT GTGAAACGGA ATAATTATAA AGCAGGGACT
451 AAAGGCCATC CTTATGGCGG CGATTATCAT ATGCCGCGTT TGCATAAATT
501 TGTCACAGAT GCAGAACCTG TTGAAATGAC CAGTTATATG GATGGGCGGA
551 AATATATCGA TCAAAATAAT TACCCTGACC GTGTTCGTAT TGGGGCAGGC
601 AGGCAATATT GGCGATCTGA TGAAGATGAG CCCAATAACC GCGAAAGTTC
651 ATATCATATT GCAAGTGCGT ATTCTTGGCT CGTTGGTGGC AATACCTTTG
701 CACAAAATGG ATCAGGTGGT GGCACAGTCA ACTTAGGTAG TGAAAAAATT
751 AAACATAGCC CATATGGTTT TTTACCAACA GGAGGCTCAT TTGGCGACAG
801 TGGCTCACCA ATGTTTATCT ATGATGCCCA AAAGCAAAAG TGGTTAATTA
851 ATGGGGTATT GCAAACGGGC AACCCCTATA TAGGAAAAAG CAATGGCTTC
901 CAGCTGGTTC GTAAAGATTG GTTCTATGAT GAAATCTTTG CTGGAGATAC
951 CCATTCAGTA TTCTACGAAC CACGTCAAAA TGGGAAATAC TCTTTTAACG
1001 ACGATAATAA TGGCACAGGA AAAATCAATG CCAAACATGA ACACAATTCT
1051 CTGCCTAATA GATTAAAAAC ACGAACCGTT CAATTGTTTA ATGTTTCTTT
1101 ATCCGAGACA GCAAGAGAAC CTGTTTATCA TGCTGCAGGT GGTGTCAACA
1151 GTTATCGACC CAGACTGAAT AATGGAGAAA ATATTTCCTT TATTGACGAA
1201 GGAAAAGGCG AATTGATACT TACCAGCAAC ATCAATCAAG GTGCTGGAGG
1251 ATTATATTTC CAAGGAGATT TTACGGTCTC GCCTGAAAAT AACGAAACTT
1301 GGCAAGGCGC GGGCGTTCAT ATCAGTGAAG ACAGTACCGT TACTTGGAAA
1351 GTAAACGGCG TGGCAAACGA CCGCCTGTCC AAAATCGGCA AAGGCACGCT
1401 GCACGTTCAA GCCAAAGGGG AAAACCAAGG CTCGATCAGC GTGGGCGACG
1451 GTACAGTCAT TTTGGATCAG CAGGCAGACG ATAAAGGCAA AAAACAAGCC
1501 TTTAGTGAAA TCGGCTTGGT CAGCGGCAGG GGTACGGTGC AACTGAATGC
1551 CGATAATCAG TTCAACCCCG ACAAACTCTA TTTCGGCTTT CGCGGCGGAC
1601 GTTTGGATTT AAACGGGCAT TCGCTTTCGT TCCACCGTAT TCAAAATACC
1651 GATGAAGGGG CGATGATTGT CAACCACAAT CAAGACAAAG AATCCACCGT
1701 TACCATTACA GGCAATAAAG ATATTGCTAC AACCGGCAAT AACAACAGCT
1751 TGGATAGCAA AAAAGAAATT GCCTACAACG GTTGGTTTGG CGAGAAAGAT
1801 ACGACCAAAA CGAACGGGCG GCTCAACCTT GTTTACCAGC CCGCCGCAGA
1851 AGACCGCACC CTGCTGCTTT CCGGCGGAAC AAATTTAAAC GGCAACATCA
1901 CGCAAACAAA CGGCAAACTG TTTTTCAGCG GCAGACCAAC ACCGCACGCC
1951 TACAATCATT TAAACGACCA TTGGTCGCAA AAAGAGGGCA TTCCTCGCGG
2001 GGAAATCGTG TGGGACAACG ACTGGATCAA CCGCACATTT AAAGCGGAAA
2051 ACTTCCAAAT TAAAGGCGGA CAGGCGGTGG TTTCCCGCAA TGTTGCCAAA
2101 GTGAAAGGCG ATTGGCATTT GAGCAATCAC GCCCAAGCAG TTTTTGGTGT
2151 CGCACCGCAT CAAAGCCACA CAATCTGTAC ACGTTCGGAC TGGACGGGTC
2201 TGACAAATTG TGTCGAAAAA ACCATTACCG ACGATAAAGT GATTGCTTCA
2251 TTGACTAAGA CCGACATCAG CGGCAATGTC GATCTTGCCG ATCACGCTCA
2301 TTTAAATCTC ACAGGGCTTG CCACACTCAA CGGCAATCTT AGTGCAAATG
2351 GCGATACACG TTATACAGTC AGCCACAACG CCACCCAAAA CGGCAACCTT
2401 AGCCTCGTGG GCAATGCCCA AGCAACATTT AATCAAGCCA CATTAAACGG
2451 CAACACATCG GCTTCGGGCA ATGCTTCATT TAATCTAAGC GACCACGCCG
2501 TACAAAACGG CAGTCTGACG CTTTCCGGCA ACGCTAAGGC AAACGTAAGC
2551 CATTCCGCAC TCAACGGTAA TGTCTCCCTA GCCGATAAGG CAGTATTCCA
2601 TTTTGAAAGC AGCCGCTTTA CCGGACAAAT CAGCGGCGGC AAGGATACGG
2651 CATTACACTT AAAAGACAGC GAATGGACGC TGCCGTCAGG CACGGAATTA
2701 GGCAATTTAA ACCTTGACAA CGCCACCATT ACACTCAATT CCGCCTATCG
2751 CCACGATGCG GCAGGGGCGC AAACCGGCAG TGCGACAGAT GCGCCGCGCC
2801 GCCGTTCGCG CCGTTCGCGC CGTTCCCTAT TATCCGTTAC ACCGCCAACT
2851 TCGGTAGAAT CCCGTTTCAA CACGCTGACG GTAAACGGCA AATTGAACGG
2901 TCAGGGAACA TTCCGCTTTA TGTCGGAACT CTTCGGCTAC CGCAGCGACA
2951 AATTGAAGCT GGCGGAAAGT TCCGAAGGCA CTTACACCTT GGCGGTCAAC
3001 AATACCGGCA ACGAACCTGC AAGCCTCGAA CAATTGACGG TAGTGGAAGG
3051 AAAAGACAAC AAACCGCTGT CCGAAAACCT TAATTTCACC CTGCAAAACG
3101 AACACGTCGA TGCCGGCGCG TGGCGTTACC AACTCATCCG CAAAGACGGC

3151 GAGTTCCGCC TGCATAATCC GGTCAAAGAA CAAGAGCTTT CCGACAAACT
3201 CGGCAAGGCA GAAGCCAAAA AACAGGCGGA AAAAGACAAC GCGCAAAGCC
3251 TTGACGCGCT GATTGCGGCC GGGCGCGATG CCGTCGAAAA GACAGAAAGC
3301 GTTGCCGAAC CGGCCCGGCA GGCAGGCGGG GAAAATGTCG GCATTATGCA
3351 GGCGGAGGAA GAGAAAAAAC GGGTGCAGGC GGATAAAGAC ACCGCCTTGG
3401 CGAAACAGCG CGAAGCGGAA ACCCGGCCGG CTACCACCGC CTTCCCCCGC
3451 GCCCGCCGCG CCCGCCGGGA TTTGCCGCAA CTGCAACCCC AACCGCAGCC
3501 CCAACCGCAG CGCGACCTGA TCAGCCGTTA TGCCAATAGC GGTTTGAGTG
3551 AATTTTCCGC CACGCTCAAC AGCGTTTTCG CCGTACAGGA CGAATTAGAC
3601 CGCGTATTTG CCGAAGACCG CCGCAACGCC GTTTGGACAA GCGGCATCCG
3651 GGACACCAAA CACTACCGTT CGCAAGATTT CCGCGCCTAC CGCCAACAAA
3701 CCGACCTGCG CCAAATCGGT ATGCAGAAAA ACCTCGGCAG CGGGCGCGTC
3751 GGCATCCTGT TTTCGCACAA CCGGACCGAA AACACCTTCG ACGACGGCAT
3801 CGGCAACTCG GCACGGCTTG CCCACGGCGC CGTTTTCGGG CAATACGGCA
3851 TCGACAGGTT CTACATCGGC ATCAGCGCGG GCGCGGGTTT TAGCAGCGGC
3901 AGCCTTTCAG ACGGCATCGG AGGCAAAATC CGCCGCCGCG TGCTGCATTA
3951 CGGCATTCAG GCACGATACC GCGCCGGTTT CGGCGGATTC GGCATCGAAC
4001 CGCACATCGG CGCAACGCGC TATTTCGTCC AAAAAGCGGA TTACCGCTAC
4051 GAAAACGTCA ATATCGCCAC CCCCGGCCTT GCATTCAACC GCTACCGCGC
4101 GGGCATTAAG GCAGATTATT CATTCAAACC GGCGCAACAC ATTTCCATCA
4151 CGCCTTATTT GAGCCTGTCC TATACCGATG CCGCTTCGGG CAAAGTCCGA
4201 ACACGCGTCA ATACCGCCGT ATTGGCTCAG GATTTCGGCA AAACCCGCAG
4251 TGCGGAATGG GGCGTAAACG CCGAAATCAA AGGTTTCACG CTGTCCCTCC
4301 ACGCTGCCGC CGCCAAAGGC CCGCAACTGG AAGCGCAACA CAGCGCGGGC
4351 ATCAAATTAG GCTACCGCTG GTAA

This corresponds to the amino acid sequence <SEQ ID 1047; ORF orf1-1>:

orf1-1.pep

1 MKTTDKRTTE THRKAPKTGR IRFSPAYLAI CLSFGILPQA WAGHTYFGIN
51 YQYYRDFAEN KGKFAVGAKD IEVYNKKGEL VGKSMTKAPM IDFSVVSRNG
101 VAALVGDQYI VSVAHNGGYN NVDFGAEGRN PDQHRFTYKI VKRNNYKAGT
151 KGHPYGGDYH MPRLHKFVTD AEPVEMTSYM DGRKYIDQNN YPDRVRIGAG
201 RQYWRSDEDE PNNRESSYHI ASAYSWLVGG NTFAQNGSGG GTVNLGSEKI
251 KHSPYGFLPT GGSFGDSGSP MFIYDAQKQK WLINGVLQTG NPYIGKSNGF
301 QLVRKDWFYD EIFAGDTHSV FYEPRQNGKY SFNDDNNGTG KINAKHEHNS
351 LPNRLKTRTV QLFNVSLSET AREPVYHAAG GVNSYRPRLN NGENISFIDE
401 GKGELILTSN INQGAGGLYF QGDFTVSPEN NETWQGAGVH ISEDSTVTWK
451 VNGVANDRLS KIGKGTLHVQ AKGENQGSIS VGDGTVILDQ QADDKGKKQA
501 FSEIGLVSGR GTVQLNADNQ FNPDKLYFGF RGGRLDLNGH SLSFHRIQNT
551 DEGAMIVNHN QDKESTVTIT GNKDIATTGN NNSLDSKKEI AYNGWFGEKD
601 TTKTNGRLNL VYQPAAEDRT LLLSGGTNLN GNITQTNGKL FFSGRPTPHA
651 YNHLNDHWSQ KEGIPRGEIV WDNDWINRTF KAENFQIKGG QAVVSRNVAK
701 VKGDWHLSNH AQAVFGVAPH QSHTICTRSD WTGLTNCVEK TITDDKVIAS
751 LTKTDISGNV DLADHAHLNL TGLATLNGNL SANGDTRYTV SHNATQNGNL
801 SLVGNAQATF NQATLNGNTS ASGNASFNLS DHAVQNGSLT LSGNAKANVS
851 HSALNGNVSL ADKAVFHFES SRFTGQISGG KDTALHLKDS EWTLPSGTEL
901 GNLNLDNATI TLNSAYRHDA AGAQTGSATD APRRRSRRSR RSLLSVTPPT
951 SVESRFNTLT VNGKLNGQGT FRFMSELFGY RSDKLKLAES SEGTYTLAVN
1001 NTGNEPASLE QLTVVEGKDN KPLSENLNFT LQNEHVDAGA WRYQLIRKDG
1051 EFRLHNPVKE QELSDKLGKA EAKKQAEKDN AQSLDALIAA GRDAVEKTES
1101 VAEPARQAGG ENVGIMQAEE EKKRVQADKD TALAKQREAE TRPATTAFPR
1151 ARRARRDLPQ LQPQPQPQPQ RDLISRYANS GLSEFSATLN SVFAVQDELD
1201 RVFAEDRRNA VWTSGIRDTK HYRSQDFRAY RQQTDLRQIG MQKNLGSGRV
1251 GILFSHNRTE NTFDDGIGNS ARLAHGAVFG QYGIDRFYIG ISAGAGFSSG
1301 SLSDGIGGKI RRRVLHYGIQ ARYRAGFGGF GIEPHIGATR YFVQKADYRY
1351 ENVNIATPGL AFNRYRAGIK ADYSFKPAQH ISITPYLSLS YTDAASGKVR
1401 TRVNTAVLAQ DFGKTRSAEW GVNAEIKGFT LSLHAAAAKG PQLEAQHSAG
1451 IKLGYRW*

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1048>:

```
orf46-2.seq
   1  TTGGGCATTT CCCGCAAAAT ATCCCTTATT CTGTCCATAC TGGCAGTGTG
  51  CCTGCCGATG CATGCACACG CCTCAGATTT GGCAAACGAT TCTTTTATCC
 101  GGCAGGTTCT CGACCGTCAG CATTTCGAAC CCGACGGGAA ATACCACCTA
 151  TTCGGCAGCA GGGGGGAACT TGCCGAGCGC AGCGGCCATA TCGGATTGGG
 201  AAAAATACAA AGCCATCAGT TGGGCAACCT GATGATTCAA CAGGCGGCCA
 251  TTAAAGGAAA TATCGGCTAC ATTGTCCGCT TTTCCGATCA CGGGCACGAA
 301  GTCCATTCCC CCTTCGACAA CCATGCCTCA CATTCCGATT CTGATGAAGC
 351  CGGTAGTCCC GTTGACGGAT TTAGCCTTTA CCGCATCCAT TGGGACGGAT
 401  ACGAACACCA TCCCGCCGAC GGCTATGACG GGCCACAGGG CGGCGGCTAT
 451  CCCGCTCCCA AAGGCGCGAG GGATATATAC AGCTACGACA TAAAAGGCGT
 501  TGCCCAAAAT ATCCGCCTCA ACCTGACCGA CAACCGCAGC ACCGGACAAC
 551  GGCTTGCCGA CCGTTTCCAC AATGCCGGTA GTATGCTGAC GCAAGGAGTA
 601  GGCGACGGAT TCAAACGCGC CACCCGATAC AGCCCCGAGC TGGACAGATC
 651  GGGCAATGCC GCCGAAGCCT TCAACGGCAC TGCAGATATC GTTAAAAACA
 701  TCATCGGCGC GGCAGGAGAA ATTGTCGGCG CAGGCGATGC CGTGCAGGGC
 751  ATAAGCGAAG GCTCAAACAT TGCTGTCATG CACGGCTTGG GTCTGCTTTC
 801  CACCGAAAAC AAGATGGCGC GCATCAACGA TTTGGCAGAT ATGGCGCAAC
 851  TCAAAGACTA TGCCGCAGCA GCCATCCGCG ATTGGGCAGT CCAAAACCCC
 901  AATGCCGCAC AAGGCATAGA AGCCGTCAGC AATATCTTTA TGGCAGCCAT
 951  CCCCATCAAA GGGATTGGAG CTGTTCGGGG AAAATACGGC TTGGGCGGCA
1001  TCACGGCACA TCCTATCAAG CGGTCGCAGA TGGGCGCGAT CGCATTGCCG
1051  AAAGGGAAAT CCGCCGTCAG CGACAATTTT GCCGATGCGG CATACGCCAA
1101  ATACCCGTCC CCTTACCATT CCCGAAATAT CCGTTCAAAC TTGGAGCAGC
1151  GTTACGGCAA AGAAAACATC ACCTCCTCAA CCGTGCCGCC GTCAAACGGC
1201  AAAAATGTCA AACTGGCAGA CCAACGCCAC CCGAAGACAG GCGTACCGTT
1251  TGACGGTAAA GGGTTTCCGA ATTTTGAGAA GCACGTGAAA TATGATACGA
1301  AGCTCGATAT TCAAGAATTA TCGGGGGGCG GTATACCTAA GGCTAAGCCT
1351  GTGTTTGATG CGAAACCGAG ATGGGAGGTT GATAGGAAGC TTAATAAATT
1401  GACAACTCGT GAGCAGGTGG AGAAAAATGT TCAGGAAATA AGGAACGGTA
1451  ATATAAACAG TAACTTTAGC CAACATGCTC AACTAGAGAG GGAAATTAAT
1501  AAACTAAAAT CTGCCGATGA AATTAATTTT GCAGATGGAA TGGGAAAATT
1551  TACCGATAGC ATGAATGACA AGGCTTTTAG TAGGCTTGTG AAATCAGTTA
1601  AAGAGAATGG CTTCACAAAT CCAGTTGTGG AGTACGTTGA AATAAATGGA
1651  AAAGCATATA TCGTAAGAGG AAATAATRGG GTTTTTGCTG CAGAATACCT
1701  TGGCAGGATA CATGAATTAA AATTTAAAAA AGTTGACTTT CCTGTTCCTA
1751  ATACTAGTTG GAAAAATCCT ACTGATGTCT TGAATGAATC AGGTAATGTT
1801  AAGAGACCTC GTTATAGGAG TAAATAA
```

This corresponds to the amino acid sequence <SEQ ID 1049; ORF orf46-2>:

```
orf46-2.pep
   1  LGISRKISLI LSILAVCLPM HAHASDLAND SFIRQVLDRQ HFEPDGKYHL
  51  FGSRGELAER SGHIGLGKIQ SHQLGNLMIQ QAAIKGNIGY IVRFSDHGHE
 101  VHSPFDNHAS HSDSDEAGSP VDGFSLYRIH WDGYEHHPAD GYDGPQGGGY
 151  PAPKGARDIY SYDIKGVAQN IRLNLTDNRS TGQRLADRFH NAGSMLTQGV
 201  GDGFKRATRY SPELDRSGNA AEAFNGTADI VKNIIGAAGE IVGAGDAVQG
 251  ISEGSNIAVM HGLGLLSTEN KMARINDLAD MAQLKDYAAA AIRDWAVQNP
 301  NAAQGIEAVS NIFMAAIPIK GIGAVRGKYG LGGITAHPIK RSQMGAIALP
 351  KGKSAVSDNF ADAAYAKYPS PYHSRNIRSN LEQRYGKENI TSSTVPPSNG
 401  KNVKLADQRH PKTGVPFDGK GFPNFEKHVK YDTKLDIQEL SGGGIPKAKP
 451  VFDAKPRWEV DRKLNKLTTR EQVEKNVQEI RNGNINSNFS QHAQLEREIN
 501  KLKSADEINF ADGMGKFTDS MNDKAFSRLV KSVKENGFTN PVVEYVEING
 551  KAYIVRGNNR VFAAEYLGRI HELKFKKVDF PVPNTSWKNP TDVLNESGNV
 601  KRPRYRSK*
```

Using the above-described procedures, the following oligonucleotide primers were employed in the polymerase chain reaction (PCR) assay in order to clone the ORFs as indicated:

Oligonucleotides used for PCR

Table 1

ORF	Primer	Sequence	Restriction sites
279	Forward	CGCGGATCCCATATG-TTGCCTGCAATCACGATT <SEQ ID 1050>	BamHI-NdeI
	Reverse	CCCGCTCGAG-TTTAGAAGCGGGCGGCAA <SEQ ID 1051>	XhoI
519	Forward	CGCGGATCCCATATG-TTCAAATCCTTTGTCGTCA <SEQ ID 1052>	BamHI-NdeI
	Reverse	CCCGCTCGAG-TTTGGCGGTTTTGCTGC <SEQ ID 1053>	XhoI
576	Forward	CGCGGATCCCATATG-GCCGCCCCCGCATCT <SEQ ID 1054>	BamHI-NdeI
	Reverse	CCCGCTCGAG-ATTTACTTTTTTGATGTCGAC <SEQ ID 1055>	XhoI
919	Forward	CGCGGATCCCATATG-TGCCAAAGCAAGAGCATC <SEQ ID 1056>	BamHI-NdeI
	Reverse	CCCGCTCGAG-CGGGCGGTATTCGGG <SEQ ID 1057>	XhoI
121	Forward	CGCGGATCCCATATG-GAAACACAGCTTTACAT <SEQ ID 1058>	BamHI-NdeI
	Reverse	CCCGCTCGAG-ATAATAATATCCCGCGCCC <SEQ ID 1059>	XhoI
128	Forward	CGCGGATCCCATATG-ACTGACAACGCACT <SEQ ID 1060>	BamHI-NdeI
	Reverse	CCCGCTCGAG-GACCGCGTTGTCGAAA <SEQ ID 1061>	XhoI
206	Forward	CGCGGATCCCATATG-AAACACCGCCAACCGA <SEQ ID 1062>	BamHI-NdeI
	Reverse	CCCGCTCGAG-TTCTGTAAAAAAAGTATGTGC <SEQ ID 1063>	XhoI
287	Forward	CCGGAATTCTAGCTAGC-CTTTCAGCCTGCGGG <SEQ ID 1064>	EcoRI-NheI
	Reverse	CCCGCTCGAG-ATCCTGCTCTTTTTTGCC <SEQ ID 1065>	XhoI
406	Forward	CGCGGATCCCATATG-TGCGGGACACTGACAG <SEQ ID 1066>	BamHI-NdeI

	Reverse	CCCGCTCGAG-AGGTTGTCCTTGTCTATG <SEQ ID 1067>	XhoI

EXAMPLE 2

Expression of ORF 919

The primer described in Table 1 for ORF 919 was used to locate and clone ORF 919. The predicted gene *919* was cloned in pET vector and expressed in *E. coli*. The product of protein expression and purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 919-His fusion protein purification. Mice were immunized with the purified 919-His and sera were used for Western blot (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Symbols: M1, molecular weight marker; PP, purified protein, TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vesicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 919 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 919 are provided in Figure 10. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 919 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 3

Expression of ORF 279

The primer described in Table 1 for ORF 279 was used to locate and clone ORF 279. The predicted gene *279* was cloned in pGex vector and expressed in *E. coli*. The product of protein expression and purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 279-GST purification. Mice were immunized with the purified 279-GST and sera were used for Western blot analysis (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vescicle preparation. Arrows indicate the position of the main recombinant protein product (A) and

the *N. meningitidis* immunoreactive band (B). These experiments confirm that 279 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 279 are provided in Figure 11. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 279 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 4

Expression of ORF 576

The primer described in Table 1 for ORF 576 was used to locate and clone ORF 576. The predicted gene *576* was cloned in pGex vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 576-GST fusion protein purification. Mice were immunized with the purified 576-GST and sera were used for Western blot (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vescicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B).. These experiments confirm that ORF 576 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 576 are provided in Figure 12. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 576 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 5

Expression of ORF 519

The primer described in Table 1 for ORF 519 was used to locate and clone ORF 519. The predicted gene *519* was cloned in pET vector and expressed in *E. coli*. The product of

protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 519-His fusion protein purification. Mice were immunized with the purified 519-His and sera were used for Western blot (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vesicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 519 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 519 are provided in Figure 13. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 519 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 6

Expression of ORF 121

The primer described in Table 1 for ORF 121 was used to locate and clone ORF 121. The predicted gene *121* was cloned in pET vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 121-His fusion protein purification. Mice were immunized with the purified 121-His and sera were used for Western blot analysis (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Results show that 121 is a surface-exposed protein. Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vescicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 121 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 121 are provided in Figure 14. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 121 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 7

Expression of ORF 128

The primer described in Table 1 for ORF 128 was used to locate and clone ORF 128. The predicted gene *128* was cloned in pET vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 128-His purification. Mice were immunized with the purified 128-His and sera were used for Western blot analysis (panel B), FACS analysis (panel C), bactericidal assay (panel D) and ELISA assay (panel E). Results show that 128 is a surface-exposed protein. Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vesicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 128 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 128 are provided in Figure 15. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 128 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 8

Expression of ORF 206

The primer described in Table 1 for ORF 206 was used to locate and clone ORF 206. The predicted gene *206* was cloned in pET vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 206-His purification. Mice were immunized with the purified 206-His and sera were used for Western blot analysis (panel B). It is worthnoting that the immunoreactive band in protein extracts from meningococcus is 38 kDa instead of 17 kDa (panel A). To gain information on the nature of this antibody staining we expressed ORF 206 in *E. coli* without the His-tag and including the predicted leader peptide. Western blot analysis on total protein extracts from *E. coli* expressing this native form of the 206 protein showed a recative band at a position of 38 kDa, as observed in meningococcus. We conclude that the 38 kDa band in panel B) is

specific and that anti-206 antibodies, likely recognize a multimeric protein complex. In panel C is shown the FACS analysis, in panel D the bactericidal assay, and in panel E) the ELISA assay. Results show that 206 is a surface-exposed protein. Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vesicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 206 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 519 are provided in Figure 16. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 206 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 9

Expression of ORF 287

The primer described in Table 1 for ORF 287 was used to locate and clone ORF 287. The predicted gene *287* was cloned in pGex vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 287-GST fusion protein purification. Mice were immunized with the purified 287-GST and sera were used for FACS analysis (panel B), bactericidal assay (panel C), and ELISA assay (panel D). Results show that 287 is a surface-exposed protein. Symbols: M1, molecular weight marker. Arrow indicates the position of the main recombinant protein product (A). These experiments confirm that 287 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 287 are provided in Figure 17. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 287 and the amino acid sequence encoded thereby is provided in Example 1.

EXAMPLE 10

Expression of ORF 406

The primer described in Table 1 for ORF 406 was used to locate and clone ORF 406. The predicted gene *406* was cloned in pET vector and expressed in *E. coli*. The product of protein purification was analyzed by SDS-PAGE. In panel A) is shown the analysis of 406-His fusion protein purification. Mice were immunized with the purified 406-His and sera were used for Western blot analysis (panel B), FACS analysis (panel C), bactericidal assay (panel D), and ELISA assay (panel E). Results show that 406 is a surface-exposed protein. Symbols: M1, molecular weight marker; TP, *N. meningitidis* total protein extract; OMV, *N. meningitidis* outer membrane vescicle preparation. Arrows indicate the position of the main recombinant protein product (A) and the *N. meningitidis* immunoreactive band (B). These experiments confirm that 406 is a surface-exposed protein and that it is a useful immunogen. The hydrophilicity plots, antigenic index, and amphipatic regions of ORF 406 are provided in Figure 18. The AMPHI program is used to predict putative T-cell epitopes (Gao et al 1989, *J. Immunol* 143:3007; Roberts et al. 1996, *AIDS Res Human Retroviruses* 12:593; Quakyi et al. 1992, *Scand J Immunol Suppl* 11:9). The nucleic acid sequence of ORF 406 and the amino acid sequence encoded thereby is provided in Example 1.

The foregoing examples are intended to illustrate but not to limit the invention.

Claims

1. A method for identifying an amino acid sequence, comprising the step of searching for putative open reading frames or protein-coding sequences within one or more of *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

2. A method according to claim 1, comprising the steps of searching a *N. meningitidis* nucleotide sequence for an initiation codon and searching the upstream sequence for an in-frame termination codon.

3. A method for producing a protein, comprising the step of expressing a protein comprising an amino acid sequence identified according to any one of claims 1-2.

4. A method for identifying a protein in *N. mengitidis*, comprising the steps of producing a protein according to claim 3, producing an antibody which binds to the protein, and determining whether the antibody recognises a protein produced by *N. menigitidis*.

5. Nucleic acid comprising an open reading frame or protein-coding sequence identified by a method according to any one of claims 1-2.

6. A protein obtained by the method of claim 3.

7. Nucleic acid comprising one or more of the *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID NO 962 to SEQ ID NO 1044.

8. Nucleic acid comprising a nucleotide sequence having greater than 50% sequence identity to a nucleotide sequence disclosed in the sequence listing SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

9. Nucleic acid comprising a fragment of a nucleotide sequence disclosed in the sequence listing SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

10. Nucleic acid according to claim 9, wherein the fragment is unique to the genome of *N. meningitidis*.

11. Nucleic acid complementary to the nucleic acid of any one of claims 7-10.

12. A protein comprising an amino acid sequence encoded within one or more of the *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

13. A protein comprising an amino acid sequences having greater than 50% sequence identity to an amino acid sequence encoded within one or more of the *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961 and 1068, or even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

14. A protein comprising a fragment of an amino acid sequence selected from the group consisting of one or more odd-numbered SEQ ID NOs 963-1037, amino acid sequences having greater than 50% identity with one or more odd-numbered SEQ ID NOs 963-1045, amino acid sequences encoded within one or more of the *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961 and 1068, and amino acid sequences encoded by one or more even-numbered SEQ ID NOs from SEQ ID 962 to SEQ ID 1044.

15. Nucleic acid encoding a protein according to any one of claims 6-8.

16. A computer, a computer memory, a computer storage medium or a computer database containing the nucleotide sequence of a nucleic acid according to any one of claims 7-11.

17. A computer, a computer memory, a computer storage medium or a computer database containing one or more of the *N. meningitidis* nucleotide sequences SEQ ID NOs 1-961.

18. A polyclonal or monoclonal antibody which binds to a protein according to any one of claims 12-14 or 6.

19. A nucleic acid probe comprising nucleic acid according to any one of claims 5, 7-10, or 15.

20. An amplification primer comprising nucleic acid according to any one of claims 5, 7-10, or 15.

21. A composition comprising (a) nucleic acid according to any one of claims 5, 7-10, or 15; (b) protein according to any one of claims 12-14; and/or (c) an antibody according to claim 18.

22. The use of a composition according to claim 21 as a medicament or as a diagnostic reagent.

23. The use of a composition according to claim 21 in the manufacture of (a) a medicament for treating or preventing infection due to Neisserial bacteria and/or (b) a diagnostic reagent for detecting the presence of Neisserial bacteria or of antibodies raised against Neisserial bacteria.

24. A method of treating a patient, comprising administering to the patient a therapeutically effective amount of a composition according to claim 21.

FIG. 1A

919 (46 kDa)

PURIFICATION

M1 919

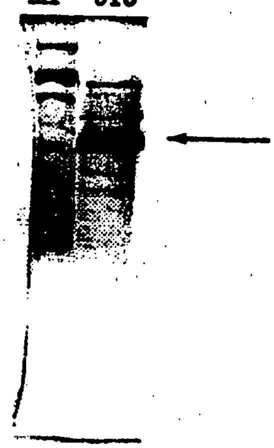

FIG. 1B

919 (46 kDa)

WESTERN BLOT

OMV TP PP

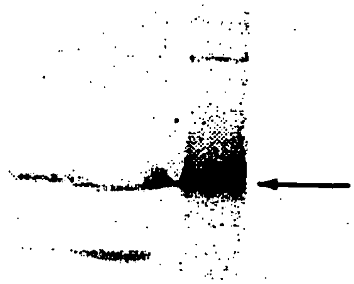

FIG. 1C

919 (46 kDa)

FACS

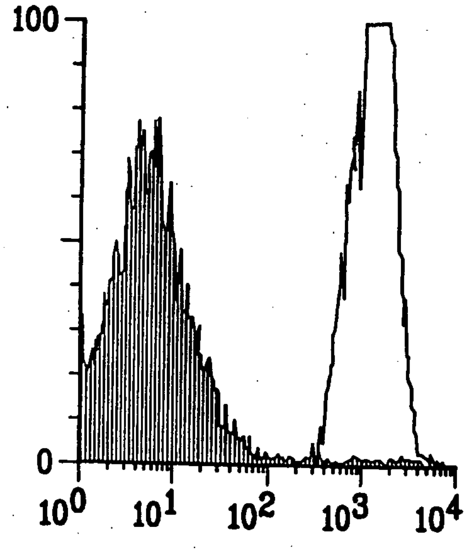

FIG. 1D

919 (46 kDa)

BACTERICIDAL ASSAY

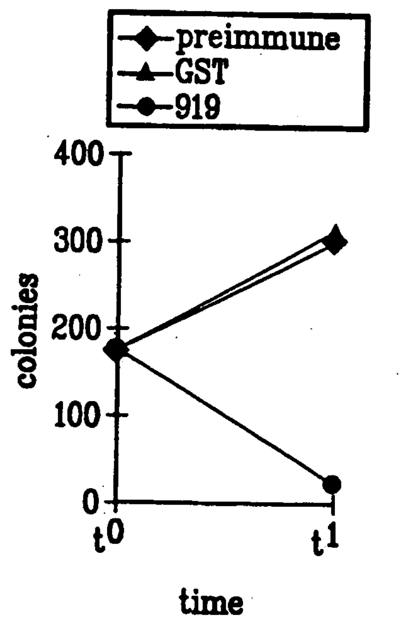

FIG. 1E

919 (46 kDa)

ELISA assay: positive

FIG. 2A

279 (10.5 kDa)
PURIFICATION
M1 279

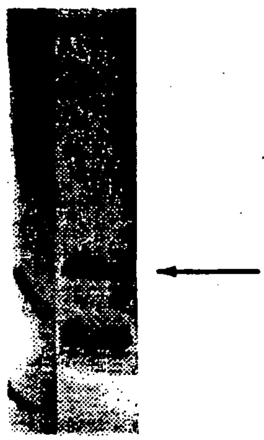

FIG. 2B

279 (10.5 kDa)
WESTERN BLOT
TP OMV

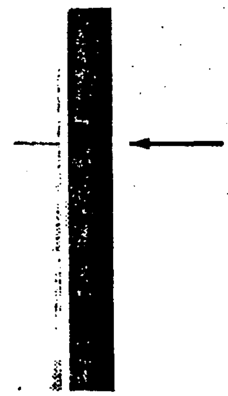

FIG. 2C

279 (10.5 kDa)
FACS

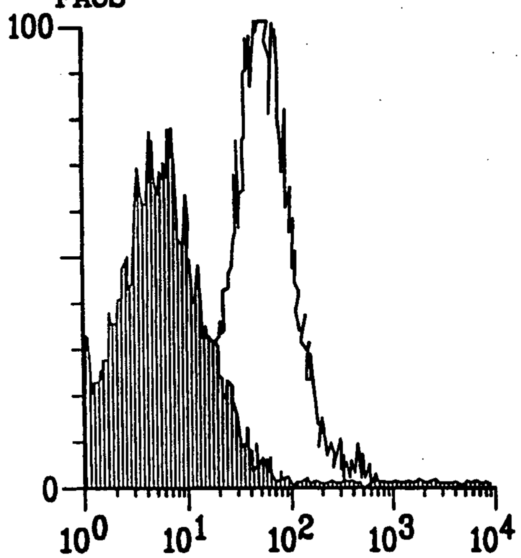

FIG. 2D

279 (10.5 kDa)
BACTERICIDAL ASSAY

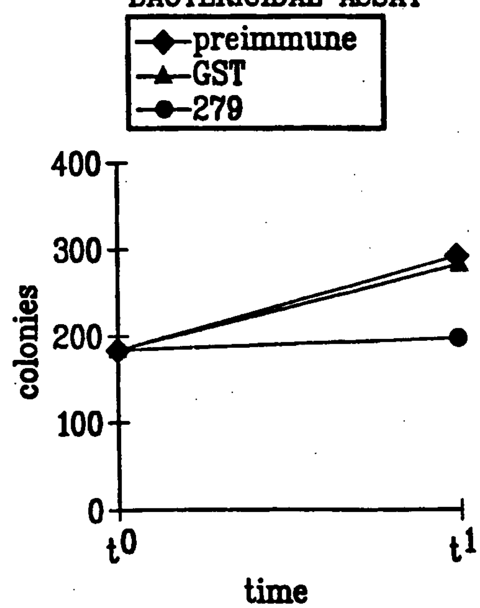

FIG. 2E

279 (10.5 kDa)

ELISA assay: <u>positive</u>

FIG. 3A

576 (27.8 kDa)
PURIFICATION
M1 576

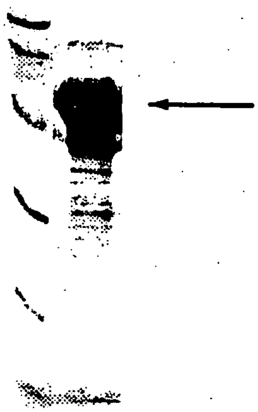

FIG. 3B

576 (27.8 kDa)
WESTERN BLOT
TP OMV

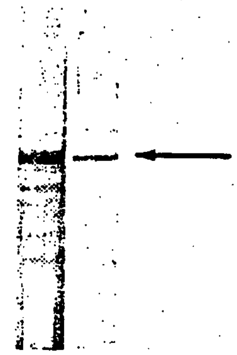

FIG. 3C

576 (27.8 kDa)
FACS

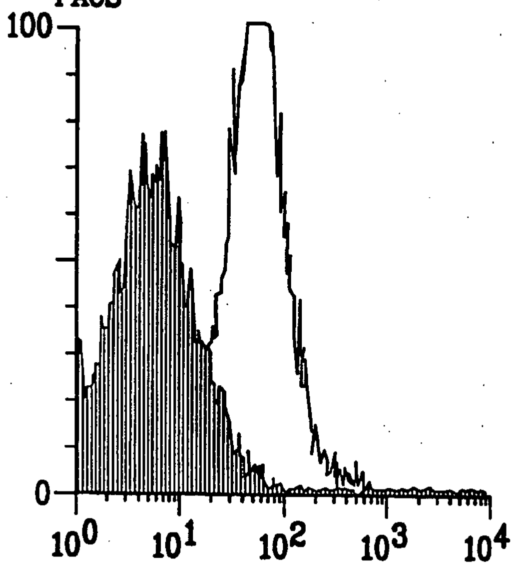

FIG. 3D

576 (27.8 kDa)
BACTERICIDAL ASSAY

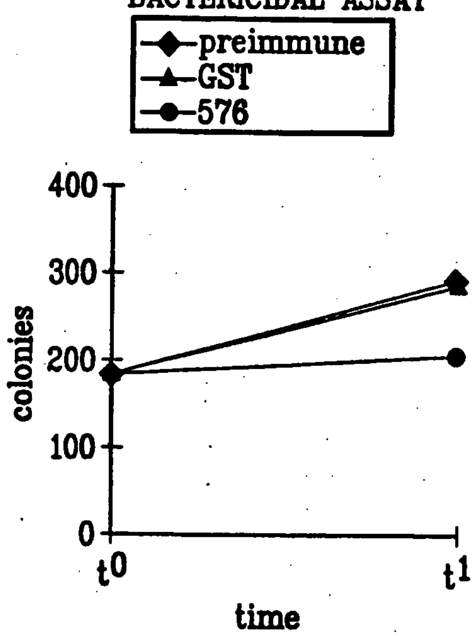

FIG. 3E

576 (27.8 kDa)
ELISA assay: positive

FIG. 4A

519 (33 kDa)
PURIFICATION
M1 519

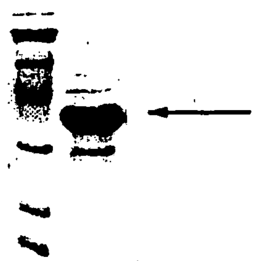

FIG. 4B

519 (33 kDa)
WESTERN BLOT
TP OMV

FIG. 4C

519 (33 kDa)
FACS

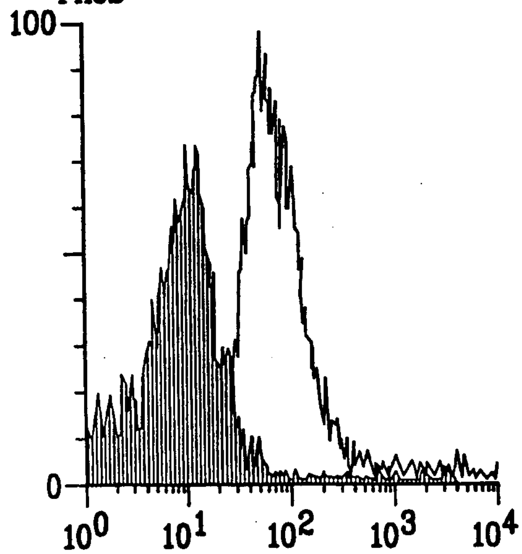

FIG. 4D

519 (33 kDa)
BACTERICIDAL ASSAY

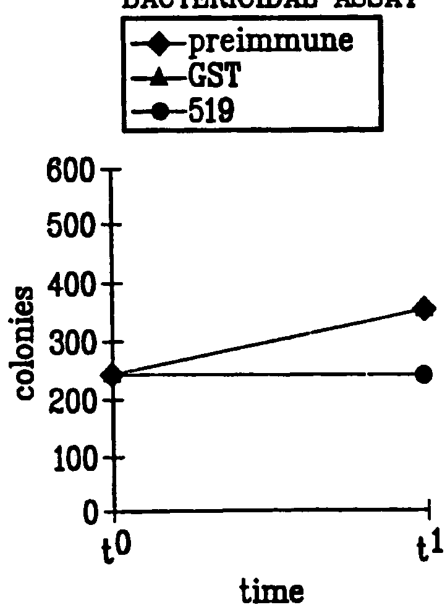

FIG. 4E

519 (33 kDa)
ELISA assay: <u>positive</u>

FIG. 5A

121 (40 kDa)
PURIFICATION

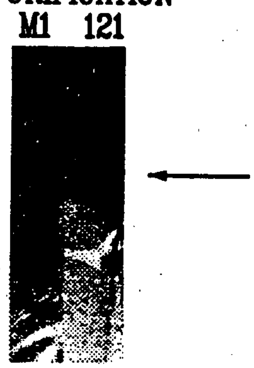

FIG. 5B

121 (40 kDa)
WESTERN BLOT

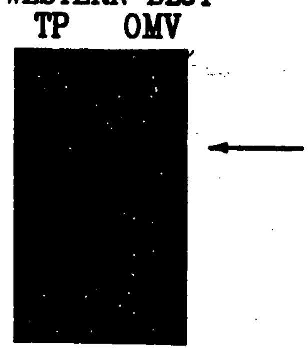

FIG. 5C

121 (40 kDa)
FACS

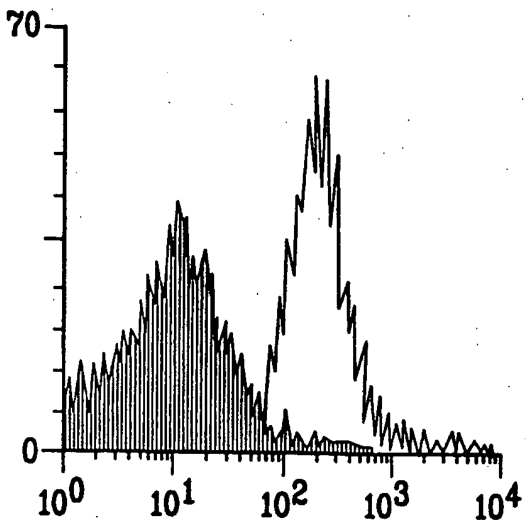

FIG. 5D

121 (40 kDa)
BACTERICIDAL ASSAY

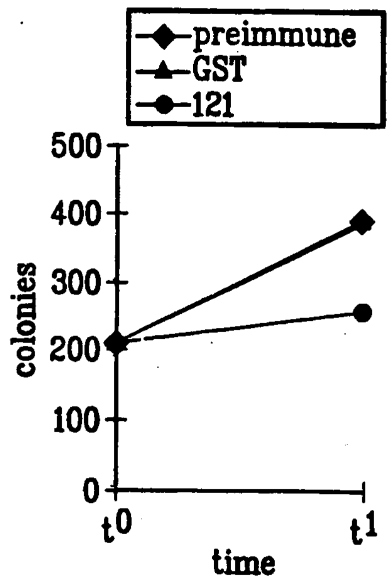

FIG. 5E

121 (40 kDa)

ELISA assay: positive

FIG. 6A

128 (101 kDa)

PURIFICATION

M1 128

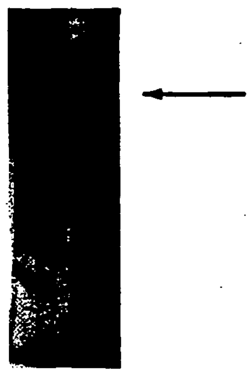

FIG. 6B

128 (101 kDa)

WESTERN BLOT

TP OMV

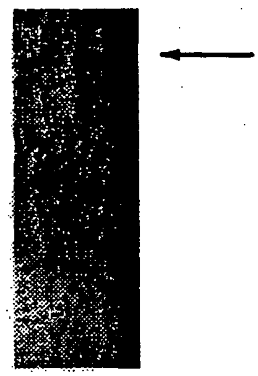

FIG. 6C

128 (101 kDa)

FACS

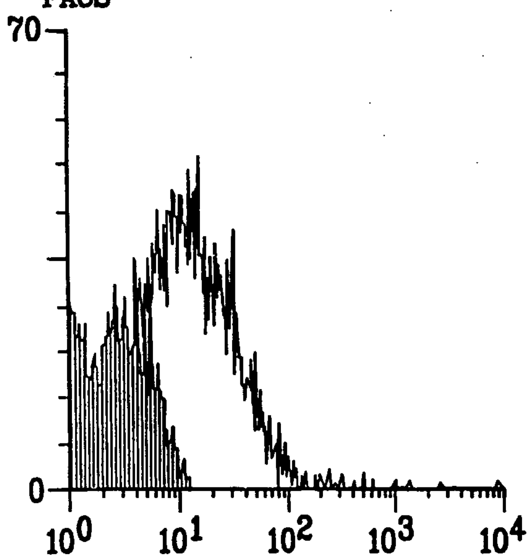

FIG. 6D

128 (101 kDa)

BACTERICIDAL ASSAY

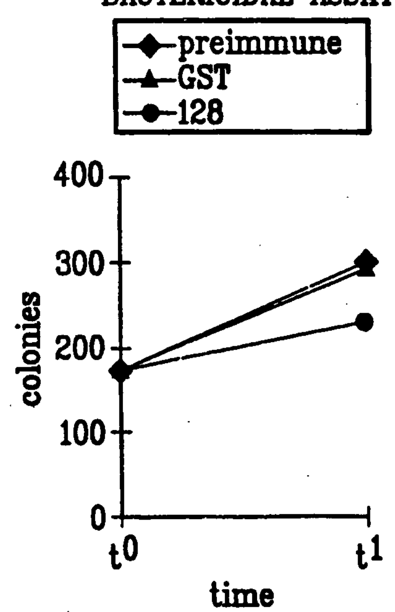

FIG. 6E

128 (101 kDa)

ELISA assay: positive

FIG. 7A

206 (17 kDa)
PURIFICATION
M1 206

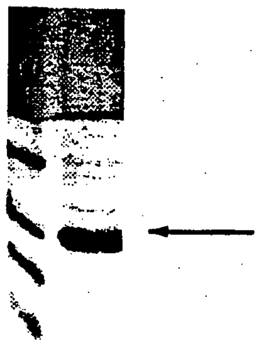

FIG. 7B

206 (17 kDa)
WESTERN BLOT
TP OMV

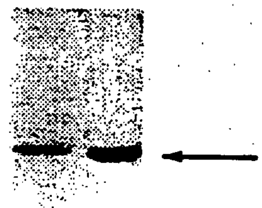

FIG. 7C

206 (17 kDa)
FACS

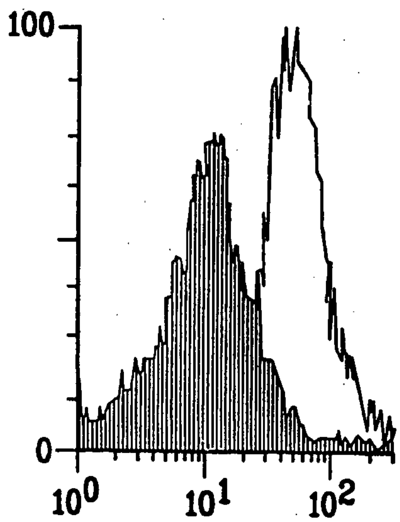

FIG. 7D

206 (17 kDa)
BACTERICIDAL ASSAY

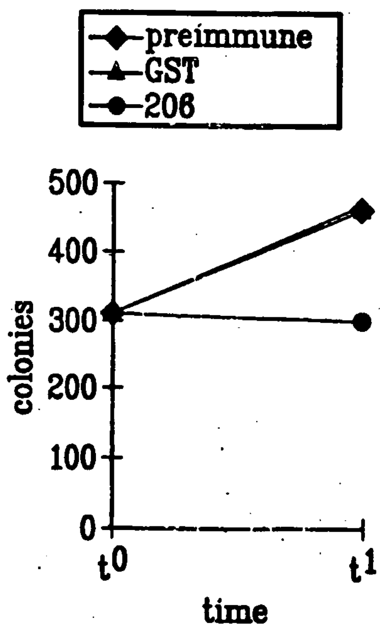

FIG. 7E

206 (17 kDa)

ELISA assay: positive

FIG. 8A

287 (78 kDa)
PURIFICATION

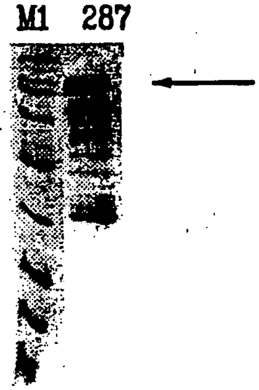

FIG. 8B

287 (78 kDa)
FACS

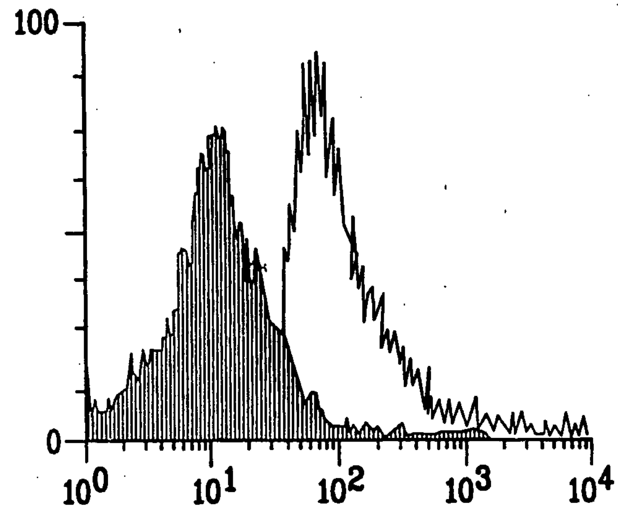

FIG. 8C

287 (78 kDa)
BACTERICIDAL ASSAY

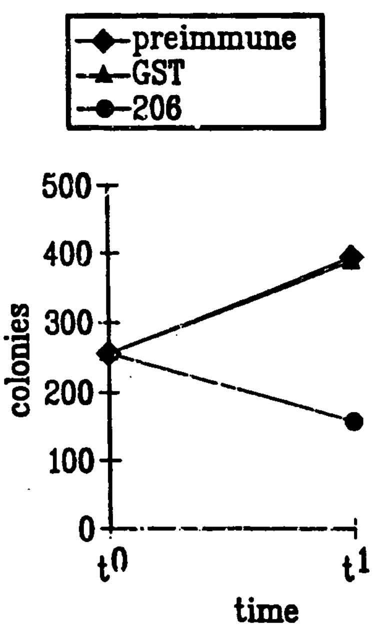

FIG. 8D

287 (78 kDa)
ELISA assay: positive

FIG. 9A

406 (33 kDa)
PURIFICATION
M1 406

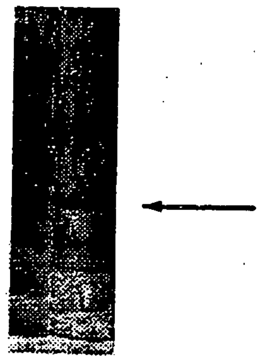

FIG. 9B

406 (33 kDa)
WESTERN BLOT
TP OMV

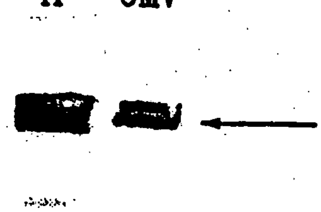

FIG. 9C

406 (33 kDa)
FACS

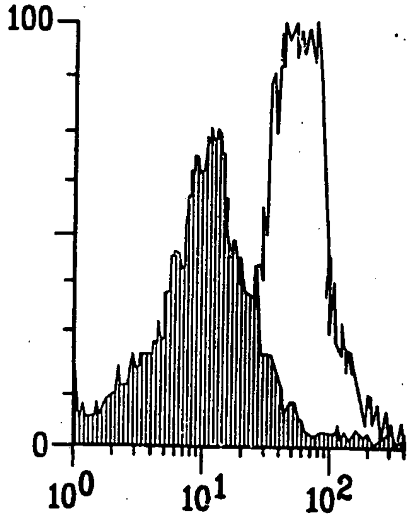

FIG. 9D

406 (33 kDa)
BACTERICIDAL ASSAY

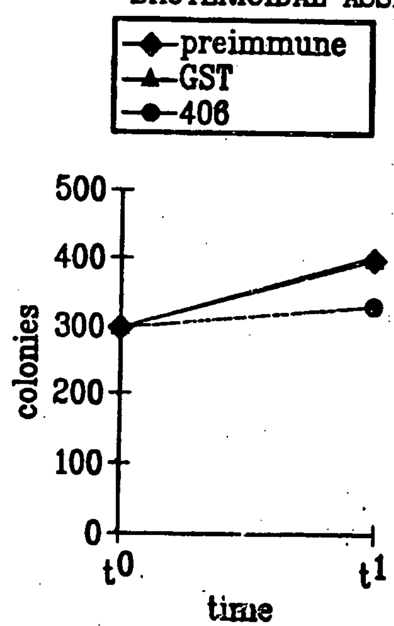

FIG. 9E

406 (33 kDa)
ELISA assay: positive

919
Hydrophilicity Plot, Antigenic Index and AMPHI Regions

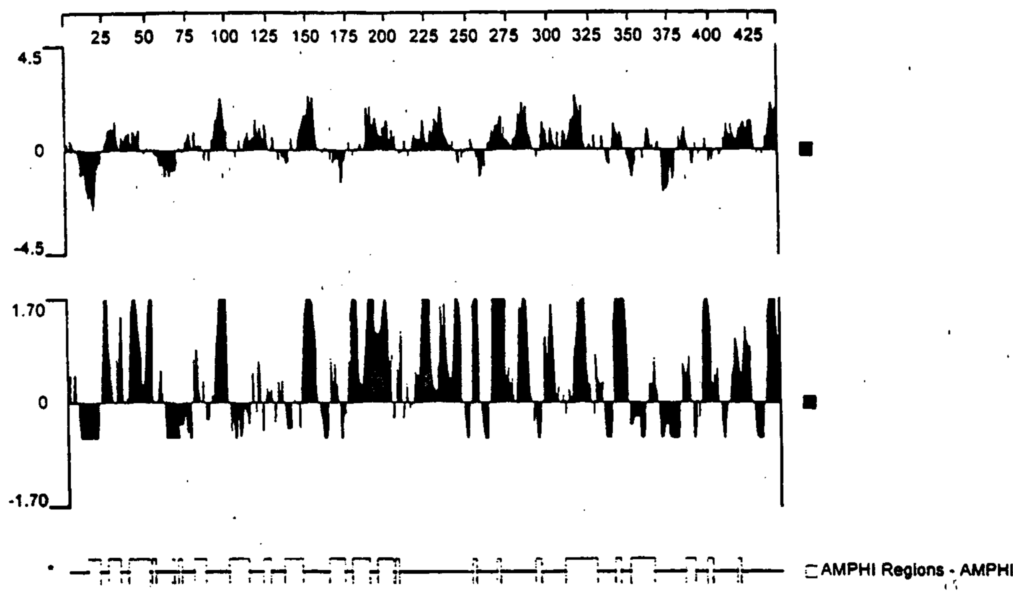

Fig. 10

279

Hydrophilicity Plot, Antigenic Index and AMPHI Regions

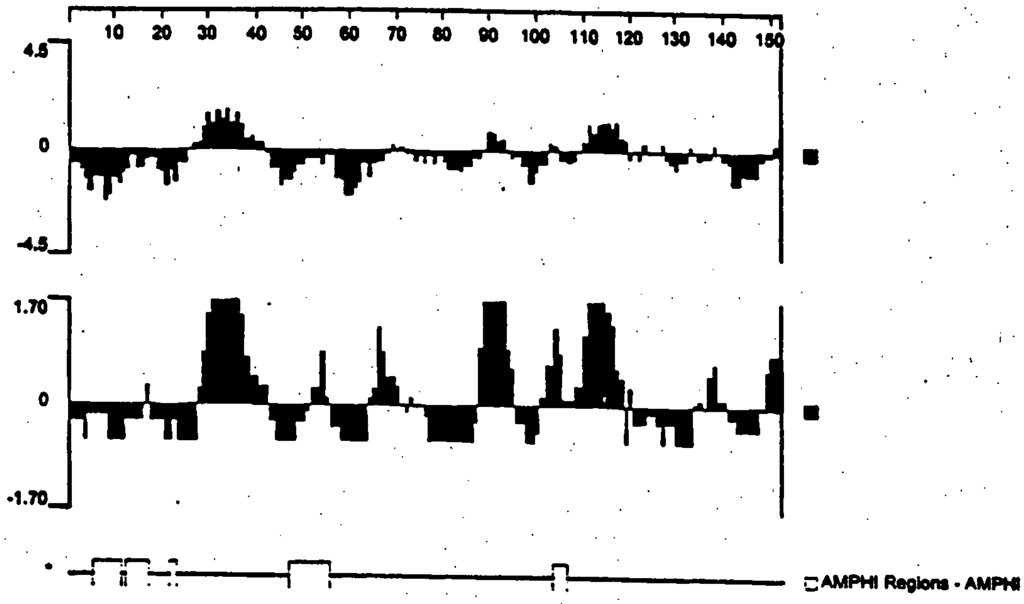

Fig. 11

576-1

Hydrophilicity Plot, Antigenic Index and AMPHI Regions

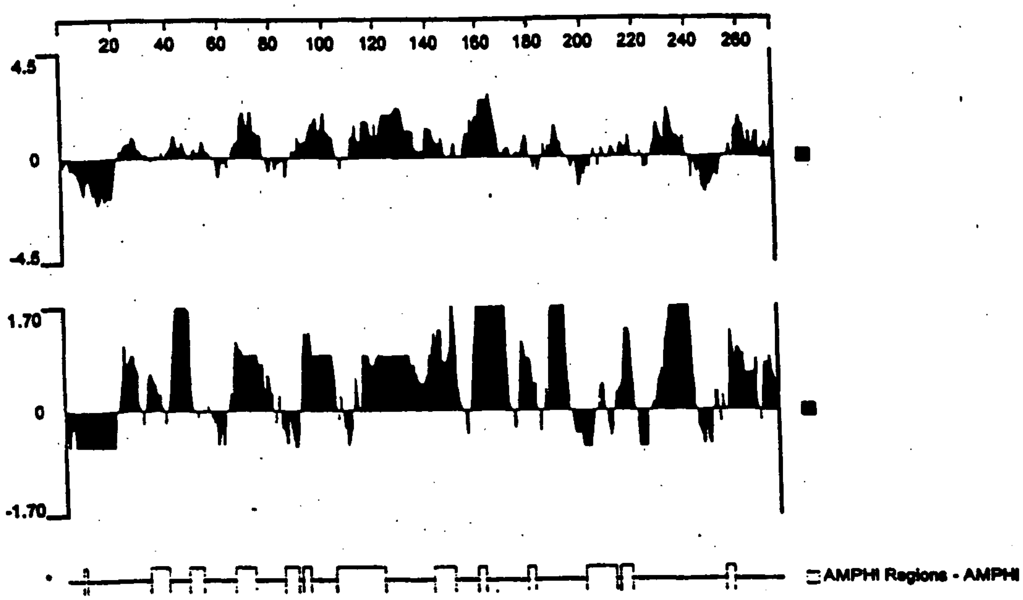

Fig. 12

519-1
Hydrophilicity Plot, Antigenic Index and AMPHI Regions

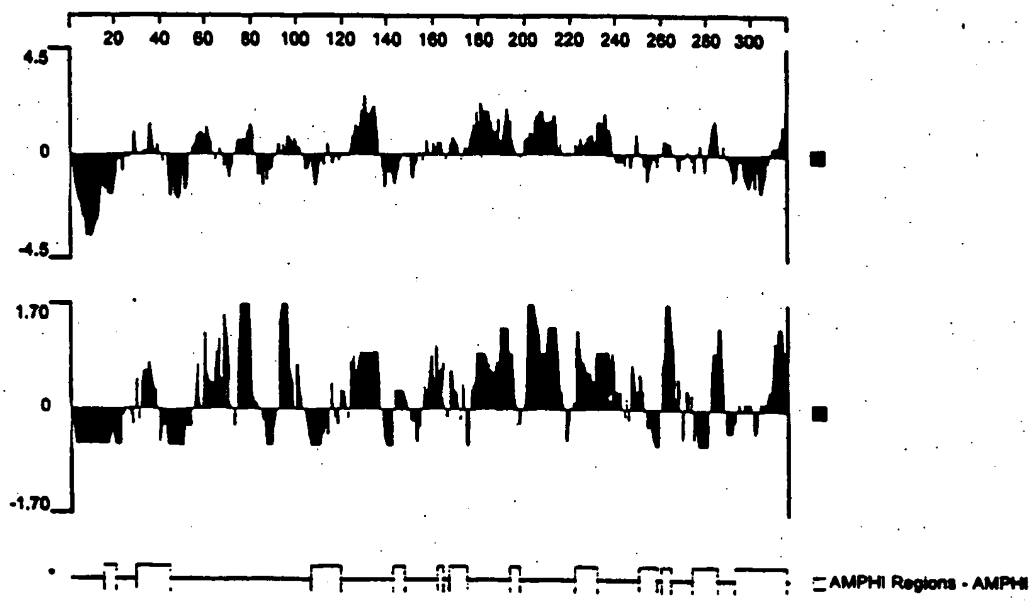

Fig. 13

121-1

Hydrophilicity Plot, Antigenic Index and AMPHI Regions

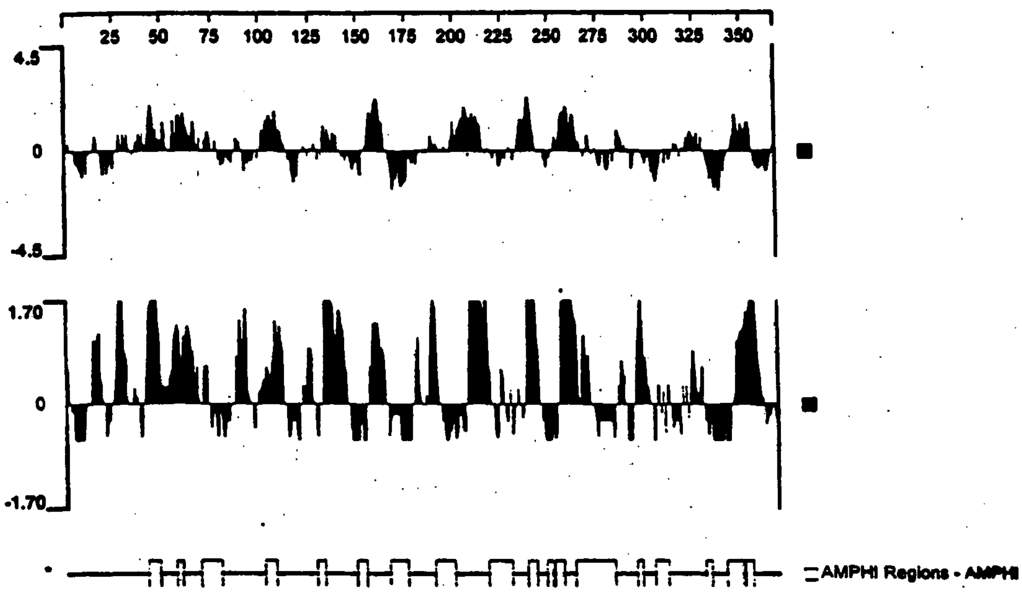

Fig. 14

128-1
Hydrophilicity Plot, Antigenic Index and AMPHI Regions

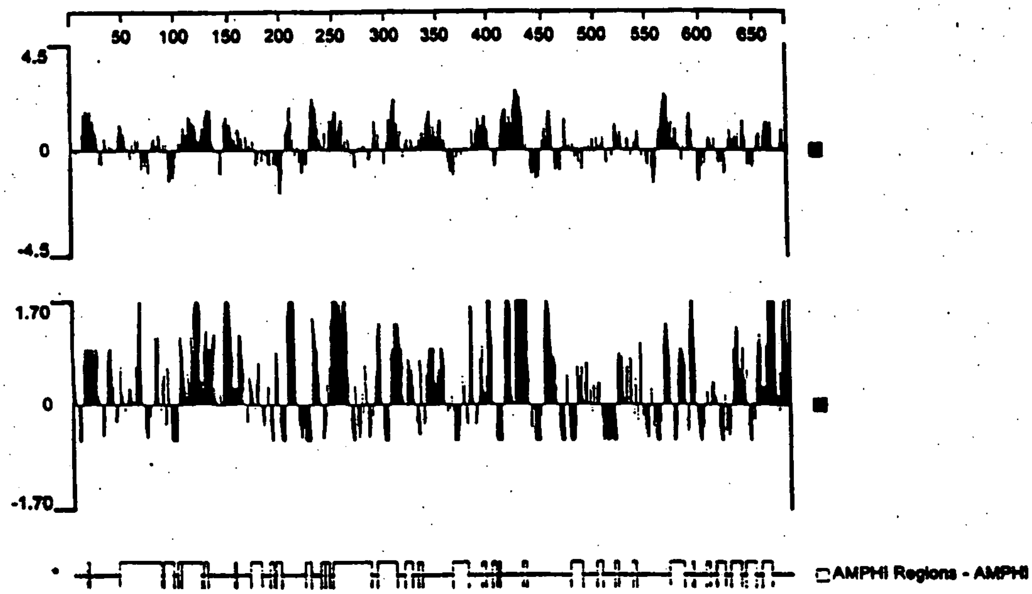

Fig. 15

206
Hydrophilicity Plot, Antigenic Index and AMPHI Regions

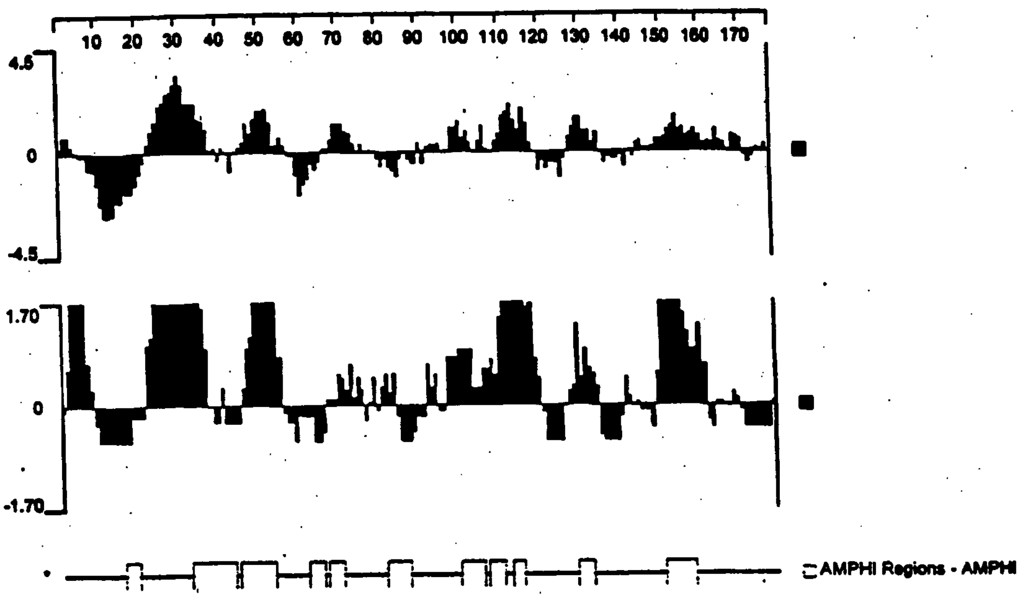

Fig. 16

287
Hydrophilicity Plot, Antigenic Index and AMPHI Regions

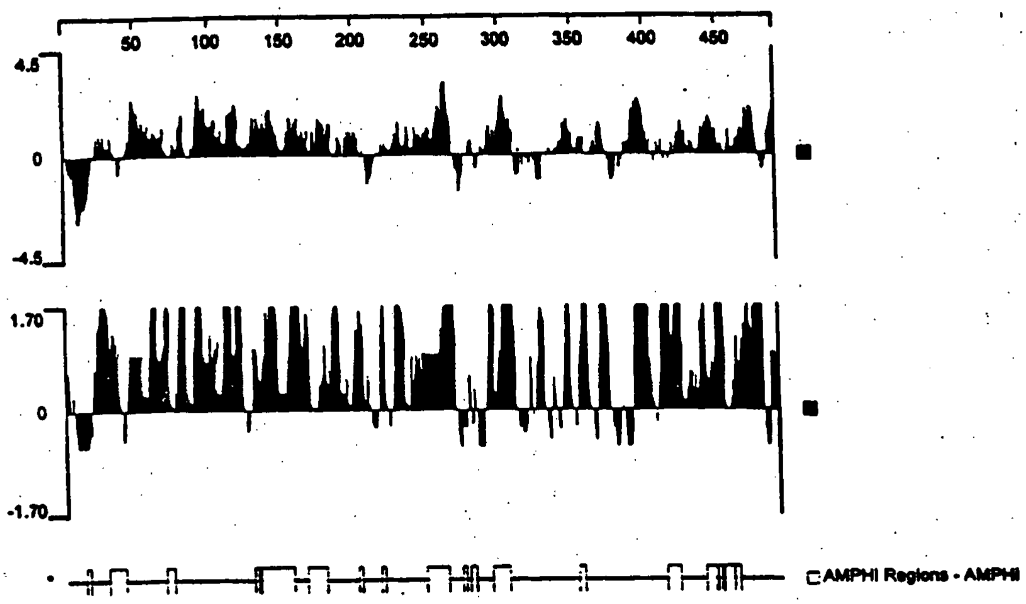

Fig. 17

406

Hydrophilicity Plot, Antigenic Index and AMPHI Regions

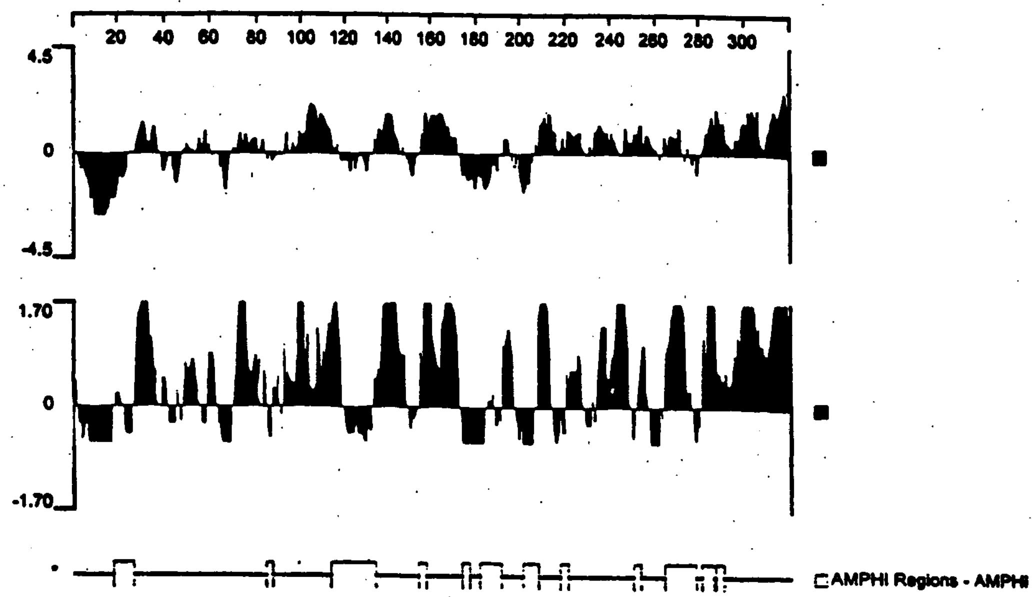

Fig. 18

APPENDIX A

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
1	GNMAA01R	9868	10311
1	GNMAA27F	10765	11284
1	GNMAA27R	11771	12130
1	GNMBA57F	5365	5930
1	GNMBA57R	6584	7118
1	GNMCD17F	9484	10035
1	GNMCD21F	14937	15512
1	GNMCD21R	16217	16700
1	GNMCD26F	27033	27581
1	GNMCD26R	25650	26101
1	GNMCD28F	27012	27581
1	GNMCD58F	27525	28047
1	GNMCD58R	26208	26582
1	GNMCF39F	25928	26411
1	GNMCF39R	24501	25188
1	GNMCK12F	18475	18988
1	GNMCK12R	16734	17175
1	GNMCL43F	31264	31793
1	GNMCL43R	32603	33038
1	GNMCL77F	7112	7681
1	GNMCL77R	8587	9143
1	GNMCO24R	8321	8920
1	GNMCP77F	24908	25412
1	GNMCP77R	26585	27107
1	GNMCQ74F	14937	15617
1	GNMCQ74R	13764	14477
1	GNMCS43F	3607	4278
1	GNMCS56F	21955	22578
1	GNMCS57F	7909	8608
1	GNMCV14F	5771	6272
1	GNMCV15R	7143	7800
1	GNMCV64F	23017	23484
1	GNMCV64R	21277	22018
1	GNMCV74F	16990	17305
1	GNMCV74R	18058	18798
1	GNMCV83F	4008	4503
1	GNMCV83R	2768	3288
1	GNMCY30F	7157	7897
1	GNMCY30R	8378	8912
1	GNMCZ78F	14192	14686
1	GNMCZ78R	15697	16234
1	GNMCZ93F	31337	31862
1	GNMCZ93R	30119	30639
2	GNMAA02F	27133	27648

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
2	GNMAA02R	26120	26546
2	GNMAA38F	16163	16379
2	GNMAA38R	14815	15335
2	GNMAA46F	2337	2704
2	GNMAA46R	3242	3746
2	GNMBA17F	15637	15798
2	GNMCD47F	11113	11453
2	GNMCD78F	13704	14196
2	GNMCD78R	15013	15380
2	GNMCK27F	4941	5490
2	GNMCK27R	3670	4086
2	GNMCL17F	23033	23527
2	GNMCL17R	21424	21995
2	GNMCL82F	24805	25200
2	GNMCL82R	26093	26659
2	GNMCN19F	5929	6601
2	GNMCP32F	18556	19103
2	GNMCP32R	19956	20403
2	GNMCQ84F	16351	17040
2	GNMCQ92F	3243	3692
2	GNMCQ92R	2022	2644
2	GNMCS51F	6645	7300
2	GNMCV24F	28139	28637
2	GNMCV25R	26839	27453
2	GNMCV77F	5149	5575
2	GNMCV77R	6008	6841
2	GNMCY52F	21892	22580
2	GNMCY52R	23157	23662
2	GNMCY74F	21900	22552
2	GNMCY74R	23519	24073
2	GNMCZ69F	1489	1999
2	GNMCZ70F	1489	1985
2	GNMCZ70R	2707	3232
3	GNMAA03F	16946	17459
3	GNMAA03R	18236	18447
3	GNMAA15F	3641	4156
3	GNMAA15R	4704	5176
3	GNMCA12F	8812	9427
3	GNMCB27F	19908	20403
3	GNMCB27R	21309	21630
3	GNMCB59F	22046	22554
3	GNMCB59R	20650	21230
3	GNMCD50F	8711	9229
3	GNMCF53F	15376	15861
3	GNMCF53R	16619	17312
3	GNMCF86F	22322	22760

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
3	GNMCL55F	12659	13184
3	GNMCL55R	13854	14380
3	GNMCM46R	11972	12682
3	GNMCM63F	7397	8071
3	GNMCM63R	8734	9381
3	GNMCP05F	2224	2884
3	GNMCV27F	10472	10939
3	GNMCV28R	11455	12172
4	GNMAA04R	21367	21727
4	GNMAA66F	9988	10514
4	GNMAA66R	9150	9669
4	GNMAA70F	19444	19981
4	GNMAA70R	20446	20841
4	GNMAB18F	34311	34576
4	GNMAB18R	32680	33102
4	GNMBA24F	21403	21950
4	GNMCA71F	35444	36108
4	GNMCA85F	14803	15535
4	GNMCB46F	27141	27652
4	GNMCB46R	28558	29139
4	GNMCD85F	25929	26447
4	GNMCF35F	37587	38035
4	GNMCF35R	36881	37327
4	GNMCK26F	23722	24288
4	GNMCK26R	25176	25751
4	GNMCK39F	26270	26836
4	GNMCK39R	27576	27934
4	GNMCK64F	37686	38053
4	GNMCK64R	36358	36915
4	GNMCL60F	2659	3208
4	GNMCL60R	4028	4520
4	GNMCM12F	21992	22465
4	GNMCM12R	23335	23919
4	GNMCM80F	15507	16171
4	GNMCM80R	16264	16980
4	GNMCN08R	33415	33739
4	GNMCO47F	23101	23700
4	GNMCO47R	24872	25344
4	GNMCP24F	34864	35552
4	GNMCP24R	33620	34225
4	GNMCP44F	24613	24976
4	GNMCP44R	25712	26279
4	GNMCQ80F	35274	35964
4	GNMCQ80R	34053	34632
4	GNMCS02F	37528	38035
4	GNMCV40F	33203	33632

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
4	GNMCX19F	37333	38076
4	GNMCX19R	36229	36871
4	GNMCX25F	28667	29362
4	GNMCX25R	27755	28398
4	GNMCX31F	1336	2085
4	GNMCX31R	1	640
4	GNMCX38F	15063	15774
4	GNMCX38R	14158	14836
4	GNMCY53F	8159	8846
4	GNMCY53R	6905	7405
4	GNMCZ25F	42411	42912
4	GNMCZ25R	40673	41229
4	GNMCZ27F	4786	5245
4	GNMCZ27R	3484	4030
5	GNMAA05F	5819	6334
5	GNMAA05R	6898	7190
5	GNMAA09F	15867	16369
5	GNMAA09R	15935	16368
5	GNMAA50R	17996	18383
5	GNMAA51F	44043	44409
5	GNMAA51R	43157	43679
5	GNMCA06F	43254	43764
5	GNMCA72F	7437	8102
5	GNMCA87F	36458	36899
5	GNMCB41F	44654	45224
5	GNMCB41R	45601	46039
5	GNMCD77F	46927	47437
5	GNMCD77R	48378	48761
5	GNMCF13F	18408	18911
5	GNMCF13R	16858	17553
5	GNMCF26F	44946	45450
5	GNMCF26R	46355	47018
5	GNMCF51F	31870	32355
5	GNMCK15F	34028	34591
5	GNMCK15R	33072	33560
5	GNMCK52F	13042	13587
5	GNMCK52R	11706	12267
5	GNMCK67F	16111	16399
5	GNMCK67R	14116	14459
5	GNMCL36F	26130	26644
5	GNMCL36R	24478	25038
5	GNMCL57F	46883	47459
5	GNMCL57R	48232	48759
5	GNMCL93F	6901	7404
5	GNMCL93R	5298	5897
5	GNMCN22F	4118	4792

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
5	GNMCN22R	5337	5969
5	GNMCN58F	17211	17798
5	GNMCN58R	15825	16436
5	GNMCN85F	38028	38698
5	GNMCN85R	39079	39689
5	GNMCP14F	47197	47893
5	GNMCP14R	47924	48597
5	GNMCP42F	23201	23701
5	GNMCP42R	24295	24875
5	GNMCP60F	31050	31537
5	GNMCP60R	29888	30442
5	GNMCQ39R	321	1003
5	GNMCS18F	39300	39713
5	GNMCS74F	41338	41970
5	GNMCS84F	47085	47801
5	GNMCS85R	48082	48687
5	GNMCV51F	33257	33720
5	GNMCV53F	35594	36103
5	GNMCV53R	36624	37232
5	GNMCV80F	3433	3924
5	GNMCV80R	2239	2949
5	GNMCX14F	15426	16088
5	GNMCX14R	14412	15041
5	GNMCY05F	26080	26786
5	GNMCY05R	25083	25665
5	GNMCY24F	45941	46684
5	GNMCY24R	47197	47748
5	GNMCY75F	9003	9618
5	GNMCY75R	9968	10503
5	GNMCZ74F	32693	33186
5	GNMCZ74R	31650	32179
6	GNMAA06F	43077	43280
6	GNMAA33F	21695	22031
6	GNMAA33R	22761	23120
6	GNMAA39F	11023	11390
6	GNMAA39R	12412	12870
6	GNMAB43F	13579	14098
6	GNMAB56F	20656	21079
6	GNMCA67F	37544	38219
6	GNMCB01F	34331	34902
6	GNMCB01R	35502	36050
6	GNMCD62F	6122	6648
6	GNMCD62R	4831	5183
6	GNMCD93F	1679	2157
6	GNMCD93R	3169	3495
6	GNMCK06F	20928	21478

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
6	GNMCK06R	19697	20289
6	GNMCL39F	24705	25251
6	GNMCL39R	23194	23548
6	GNMCM21F	32432	33056
6	GNMCM21R	33649	34334
6	GNMCN70R	14256	14926
6	GNMCO52F	13197	13922
6	GNMCO85F	26216	26827
6	GNMCO85R	25022	25686
6	GNMCS27F	16689	17300
6	GNMCS61F	3508	4184
6	GNMCS77F	40570	41276
6	GNMCS83F	32447	33093
6	GNMCS84R	30598	31235
6	GNMCV08F	42819	43260
6	GNMCV09R	44363	44932
6	GNMCV75F	14981	15479
6	GNMCX36F	38996	39738
6	GNMCX36R	39855	40528
6	GNMCX59F	39178	39574
6	GNMCX59R	40477	41178
6	GNMCY92F	24695	25185
6	GNMCZ42F	15656	16179
6	GNMCZ42R	17126	17641
6	GNMCZ59F	38912	39364
6	GNMCZ59R	37528	38062
7	GNMAA07F	8291	8808
7	GNMAA07R	9371	9793
7	GNMAA10F	39307	39822
7	GNMAA10R	37810	38060
7	GNMAA76F	289	796
7	GNMAA76R	1117	1517
7	GNMAB01F	33973	34541
7	GNMAB01R	34969	35306
7	GNMAB04F	53611	54157
7	GNMAB04R	52653	53059
7	GNMAB52F	37174	37740
7	GNMAB55F	52123	52618
7	GNMBA81F	28757	29327
7	GNMBA81R	27546	28097
7	GNMBB21F	40393	40959
7	GNMBB21R	39008	39449
7	GNMCA75F	31357	32032
7	GNMCB25F	33514	34085
7	GNMCB25R	34748	35431
7	GNMCB48F	14504	15191

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
7	GNMCB56F	36438	37114
7	GNMCB56R	35390	36079
7	GNMCB67F	42108	42771
7	GNMCB67R	41133	41740
7	GNMCB69F	27142	27807
7	GNMCB69R	25881	26530
7	GNMCD33R	50431	50757
7	GNMCD51F	6134	6629
7	GNMCF11F	35219	35727
7	GNMCF11R	36758	37229
7	GNMCF37F	51876	52358
7	GNMCF37R	49997	50607
7	GNMCF45F	40695	41177
7	GNMCF45R	41795	42403
7	GNMCF58F	6844	7311
7	GNMCF58R	5528	6208
7	GNMCF89F	52016	52469
7	GNMCF89R	53363	54002
7	GNMCH63F	39350	39770
7	GNMCH80F	20170	20807
7	GNMCK02F	43141	43483
7	GNMCK02R	41418	41852
7	GNMCK03F	41843	42407
7	GNMCK03R	40397	40952
7	GNMCK75F	29011	29346
7	GNMCK75R	27279	27840
7	GNMCL37F	37568	38097
7	GNMCL37R	38870	39442
7	GNMCL38F	38465	38990
7	GNMCL38R	37261	37843
7	GNMCL50F	52471	53008
7	GNMCL50R	51307	51879
7	GNMCM16R	43200	43843
7	GNMCM28F	31079	31677
7	GNMCM28R	29988	30699
7	GNMCM75F	29428	30002
7	GNMCM75R	28230	28947
7	GNMCN07R	31678	32296
7	GNMCN08F	30220	30908
7	GNMCN66F	49682	50383
7	GNMCN68R	48507	48702
7	GNMCP52F	53906	54238
7	GNMCP75F	3335	3631
7	GNMCP75R	2430	2916
7	GNMCP87F	19818	20336
7	GNMCP87R	21539	21853

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
7	GNMCQ05F	16992	17629
7	GNMCQ05R	15900	16596
7	GNMCQ06F	8173	8758
7	GNMCQ06R	6774	7461
7	GNMCQ11F	35268	35953
7	GNMCQ11R	36305	36981
7	GNMCQ13F	28320	29037
7	GNMCQ13R	29418	30079
7	GNMCQ24F	40176	40783
7	GNMCQ24R	40841	41510
7	GNMCQ37R	20188	20919
7	GNMCQ55F	40743	41309
7	GNMCQ55R	41980	42698
7	GNMCS30F	49344	49993
7	GNMCS53F	16879	17595
7	GNMCS95F	29469	29622
7	GNMCV01R	30937	31651
7	GNMCV17F	24334	24812
7	GNMCV18R	25368	26100
7	GNMCV28F	26427	26916
7	GNMCV29R	24847	25211
7	GNMCV69F	16647	17098
7	GNMCV91F	10009	10521
7	GNMCV91R	8630	9420
7	GNMCX23F	36634	37387
7	GNMCX23R	38318	38893
7	GNMCX24R	33857	34497
7	GNMCX67F	44537	45096
7	GNMCX67R	45763	46455
7	GNMCX77F	3423	4090
7	GNMCY56F	44117	44788
7	GNMCY56R	45883	46440
7	GNMCY79F	37394	38041
7	GNMCY79R	38954	39287
7	GNMCY84F	7387	8023
7	GNMCY84R	8749	9223
7	GNMCZ21F	28454	28986
7	GNMCZ21R	29774	30347
8	GNMAA08F	3883	4232
8	GNMAA08R	4930	5373
8	GNMAA17F	20102	20622
8	GNMAA17R	19135	19510
8	GNMAA18F	18255	18770
8	GNMAA69F	3985	4501
8	GNMAA69R	2840	3310
8	GNMBA02R	18827	19205

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
8	GNMBA38R	20193	20729
8	GNMBB17F	16245	16809
8	GNMBB17R	14789	15278
8	GNMCD01F	1728	2071
8	GNMCD01R	3032	3580
8	GNMCD57F	15533	16080
8	GNMCD57R	14017	14387
8	GNMCH21F	7735	8074
8	GNMCH58F	20193	20483
8	GNMCK17F	12025	12589
8	GNMCK17R	13519	14038
8	GNMCN37F	11716	12367
8	GNMCN37R	10459	10898
8	GNMCQ71F	15717	16394
8	GNMCQ71R	17082	17799
8	GNMCV56F	2818	3221
8	GNMCV56R	4184	4873
8	GNMCW18F	11443	12002
8	GNMCW19F	12243	12874
8	GNMCX44F	13230	13907
8	GNMCX44R	12093	12776
8	GNMCX81F	6904	7509
8	GNMCX81R	8613	9312
9	GNMAA11R	3820	4070
9	GNMCF10F	4237	4718
9	GNMCF10R	5381	6021
9	GNMCF16F	6231	6723
9	GNMCF16R	4976	5578
9	GNMCH10F	8003	8324
9	GNMCH10R	6412	6686
9	GNMCS36F	8057	8725
9	GNMCX89R	7787	8447
10	GNMAA12F	700	1214
11	GNMAA13F	48121	48639
11	GNMAA13R	49787	50045
11	GNMAA73F	9309	9827
11	GNMAA73R	10319	10725
11	GNMAA95F	5068	5583
11	GNMAA95R	4340	4731
11	GNMAB70F	44475	44903
11	GNMAB70R	45692	46213
11	GNMAB84F	34949	35517
11	GNMAB84R	35628	36115
11	GNMBA30F	35071	35637
11	GNMBA30R	34080	34618
11	GNMBA65F	46358	46779

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
11	GNMBA65R	48334	48629
11	GNMBA96F	25616	26168
11	GNMBA96R	27180	27576
11	GNMCA79F	12432	13093
11	GNMCA81F	64372	65033
11	GNMCB75F	12474	13003
11	GNMCB75R	11368	11898
11	GNMCB79F	12463	12998
11	GNMCB79R	11374	11879
11	GNMCB80F	12394	13044
11	GNMCB80R	11355	11761
11	GNMCB88F	26453	27107
11	GNMCB88R	25225	25878
11	GNMCD37R	1837	2210
11	GNMCD48F	36014	36541
11	GNMCD48R	37485	37833
11	GNMCD61F	33776	34331
11	GNMCD61R	32513	32886
11	GNMCF05F	61923	62430
11	GNMCF05R	63324	63994
11	GNMCF20F	64093	64548
11	GNMCF20R	62670	63312
11	GNMCF27F	7865	8322
11	GNMCF27R	6252	6941
11	GNMCF31F	2643	3144
11	GNMCF31R	3621	4255
11	GNMCF32F	34812	35310
11	GNMCF32R	33489	34167
11	GNMCF44F	7905	8323
11	GNMCF44R	6275	6806
11	GNMCF54F	4208	4682
11	GNMCF54R	5789	6419
11	GNMCH29F	4781	5137
11	GNMCH75F	60773	61203
11	GNMCH75R	62111	62403
11	GNMCK80F	40661	41202
11	GNMCK80R	39298	39847
11	GNMCL01F	59052	59569
11	GNMCL01R	57689	58283
11	GNMCL62F	36623	37174
11	GNMCL62R	38138	38721
11	GNMCL65F	11758	12282
11	GNMCL65R	13221	13807
11	GNMCM44R	3393	4077
11	GNMCM85R	60497	61118
11	GNMCN29F	75370	76048

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
11	GNMCN29R	76487	77001
11	GNMCN90F	53115	53836
11	GNMCN90R	51986	52525
11	GNMCP26F	38602	39106
11	GNMCP26R	37257	37549
11	GNMCQ58F	61396	62055
11	GNMCQ58R	62637	63355
11	GNMCS12F	7065	7598
11	GNMCV05F	4623	5085
11	GNMCV06R	3299	4083
11	GNMCV16F	51884	52341
11	GNMCV17R	53784	54354
11	GNMCV88F	70556	71043
11	GNMCV88R	69005.	69740
11	GNMCW41F	39495	40133
11	GNMCX04F	26396	27141
11	GNMCX04R	25242	25882
11	GNMCX65F	43846	44360
11	GNMCX65R	45795	46258
11	GNMCY01F	42714	43318
11	GNMCY03F	16064	16747
11	GNMCY03R	17171	17665
11	GNMCY76F	36967	37624
11	GNMCY76R	38440	38999
11	GNMCZ26F	45695	46211
11	GNMCZ26R	46903	47445
11	GNMCZ30F	53419	53933
11	GNMCZ30R	54651	55202
11	GNMCZ86R	43568	43996
12	GNMAA14F	51035	51374
12	GNMAA62F	22307	22668
12	GNMAA62R	21211	21585
12	GNMAA84F	4132	4648
12	GNMAA84R	3028	3497
12	GNMAB19F	53197	53641
12	GNMAB19R	51715	51941
12	GNMAB34F	59820	60248
12	GNMAB75F	8230	8726
12	GNMAB75R	6772	7086
12	GNMBA16F	61880	62448
12	GNMBA16R	63397	63930
12	GNMBA55F	54894	55463
12	GNMBA55R	53249	53699
12	GNMBB07F	45401	45967
12	GNMBB07R	46474	46846
12	GNMBB23F	23330	23896

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
12	GNMBB23R	21762	22258
12	GNMBB28F	17524	18093
12	GNMBB28R	19255	19581
12	GNMCA08F	80267	80572
12	GNMCA26F	95492	95876
12	GNMCB71F	3761	4447
12	GNMCB71R	2760	3305
12	GNMCD40F	25822	26340
12	GNMCD40R	27392	27712
12	GNMCF14F	254	698
12	GNMCF23F	25032	25512
12	GNMCF23R	26296	26954
12	GNMCF59F	543	781
12	GNMCF59R	1909	2359
12	GNMCF75F	38537	38993
12	GNMCH09F	70027	70360
12	GNMCH09R	68764	69057
12	GNMCK63F	82010	82461
12	GNMCK63R	83284	83844
12	GNMCL27F	36594	37139
12	GNMCL27R	38339	38900
12	GNMCL83F	24969	25304
12	GNMCL83R	26594	27175
12	GNMCM24F	58035	58620
12	GNMCM24R	56788	57519
12	GNMCM26R	43862	44449
12	GNMCM33F	59354	60069
12	GNMCM33R	58194	58939
12	GNMCN23F	31658	32330
12	GNMCN23R	29999	30623
12	GNMCP07F	62762	63498
12	GNMCP07R	61716	62463
12	GNMCQ25F	29033	29713
12	GNMCQ25R	27952	28642
12	GNMCQ31F	33826	34489
12	GNMCQ31R	32628	33318
12	GNMCQ35F	99046	99645
12	GNMCQ35R	100151	100867
12	GNMCS06F	35210	35790
12	GNMCS07F	38327	38874
12	GNMCS37F	93209	93927
12	GNMCS45F	52207	52867
12	GNMCS59F	49955	50647
12	GNMCS63F	13556	14245
12	GNMCS75F	95191	95899
12	GNMCS94F	39007	39638

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
12	GNMCV02F	96642	97004
12	GNMCV03R	95290	96043
12	GNMCV19F	13169	13632
12	GNMCV20R	11334	12063
12	GNMCV67F	12472	12929
12	GNMCV67R	11158	11877
12	GNMCV95F	48011	48518
12	GNMCV95R	48642	49450
12	GNMCX03F	64105	64613
12	GNMCX03R	65502	66139
12	GNMCX62F	91416	91831
12	GNMCX68R	55716	56405
12	GNMCX82F	55372	56082
12	GNMCX82R	54147	54839
12	GNMCX90F	81959	82454
12	GNMCX90R	83099	83791
12	GNMCX91F	82087	82392
12	GNMCY47F	80254	80920
12	GNMCY47R	78886	79381
12	GNMCY81F	17736	18413
12	GNMCY81R	19180	19621
12	GNMCZ02F	24891	25412
12	GNMCZ02R	26406	26946
12	GNMCZ10F	34243	34706
12	GNMCZ10R	35555	36086
12	GNMCZ54F	59674	60174
12	GNMCZ54R	58180	58651
12	GNMCZ65F	70323	70828
12	GNMCZ65R	71871	72382
13	GNMAA19F	12931	13449
13	GNMAA19R	11822	12291
13	GNMAA55R	4581	5101
13	GNMAA63F	36862	37225
13	GNMAA63R	35706	36096
13	GNMAA77F	20561	20750
13	GNMAB20F	14416	14852
13	GNMBA41R	21126	21626
13	GNMCB15F	3423	3980
13	GNMCB15R	4343	4984
13	GNMCB38F	22717	23346
13	GNMCB38R	21451	22022
13	GNMCB57F	11695	12343
13	GNMCD23F	33967	34506
13	GNMCD23R	32498	32984
13	GNMCD27F	25756	26330
13	GNMCD27R	24266	24695

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
13	GNMCD30F	25823	26369
13	GNMCD30R	24703	25016
13	GNMCD91F	36457	36958
13	GNMCF77F	11321	11777
13	GNMCF77R	9878	10580
13	GNMCH04F	9222	9510
13	GNMCK07F	20658	21162
13	GNMCK07R	21983	22516
13	GNMCK24F	11029	11566
13	GNMCK24R	12531	12904
13	GNMCL26F	33412	33883
13	GNMCL26R	32004	32585
13	GNMCL42F	25017	25487
13	GNMCL42R	26410	26988
13	GNMCM18F	9081	9580
13	GNMCM18R	7774	8463
13	GNMCM79F	28296	28959
13	GNMCM79R	29623	30321
13	GNMCN57F	43959	44583
13	GNMCN57R	42560	43109
13	GNMCO81F	36053	36717
13	GNMCO81R	34853	35488
13	GNMCP18F	20932	21612
13	GNMCP18R	19724	20394
13	GNMCS73F	26639	27284
13	GNMCS76R	25539	26264
13	GNMCV09F	46801	47242
13	GNMCV10R	45342	46019
13	GNMCV48F	40436	40867
13	GNMCV81F	21352	21853
13	GNMCW37F	45183	45820
13	GNMCX11F	1628	2393
13	GNMCX11R	2983	3629
13	GNMCX76F	41236	41920
13	GNMCX76R	42308	42978
13	GNMCY20F	20524	21188
13	GNMCY20R	19350	19922
13	GNMCY46F	15097	15751
13	GNMCY46R	16501	17054
13	GNMCY87F	21699	22313
13	GNMCY87R	20274	20660
13	GNMCZ29F	46571	47106
14	GNMAA20F	2883	3399
15	GNMAA21F	12719	13236
15	GNMAA21R	11967	12439
15	GNMAA83F	2799	3318

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
15	GNMAA83R	3978	4448
15	GNMBA09F	4054	4621
15	GNMCB52F	15275	16007
15	GNMCB52R	16498	16827
15	GNMCB77F	18627	19229
15	GNMCB77R	20264	20766
15	GNMCB83F	18623	19271
15	GNMCB83R	20266	20777
15	GNMCL14F	3072	3593
15	GNMCL14R	1651	2228
15	GNMCL87R	9692	10245
15	GNMCN52F	5357	5991
15	GNMCN52R	6753	7339
15	GNMCP45F	11548	12079
15	GNMCP45R	13429	13801
15	GNMCQ09F	19788	20364
15	GNMCQ09R	18441	19134
15	GNMCQ40F	20922	21572
15	GNMCQ40R	22245	22939
15	GNMCV26F	13405	13894
15	GNMCV27R	12194	12828
15	GNMCW08F	23327	23910
15	GNMCX17F	4323	5048
15	GNMCX17R	3040	3690
16	GNMAA22F	54115	54632
16	GNMAA22R	55087	55557
16	GNMAA40R	44790	45219
16	GNMAA72F	58127	58639
16	GNMAA72R	57179	57650
16	GNMAB05F	47515	48081
16	GNMAB05R	46674	47004
16	GNMAB06F	65453	66020
16	GNMAB06R	66416	66833
16	GNMAB07F	65453	65772
16	GNMAB28F	70440	71008
16	GNMAB28R	71467	71806
16	GNMAB41F	21694	22260
16	GNMAB54F	45585	46150
16	GNMAB65F	18770	19084
16	GNMBA69F	9418	9986
16	GNMBA69R	8303	8848
16	GNMBA76F	39980	40549
16	GNMBA76R	41451	41944
16	GNMBA79R	1185	1359
16	GNMCA89F	63127	63781
16	GNMCB30F	5241	5748

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
16	GNMCB32R	3919	4495
16	GNMCD69F	20174	20609
16	GNMCD69R	21508	21899
16	GNMCD74F	20264	20751
16	GNMCF08F	25798	26287
16	GNMCF08R	24361	25036
16	GNMCF36R	42733	43371
16	GNMCF46R	4203	4663
16	GNMCF48F	40973	41398
16	GNMCF48R	39629	40232
16	GNMCF73F	27684	28143
16	GNMCF73R	26442	27127
16	GNMCF81F	67923	68332
16	GNMCH17F	68971	69291
16	GNMCH34R	22199	22496
16	GNMCK28F	17936	18486
16	GNMCK28R	16766	17104
16	GNMCK32F	20788	21317
16	GNMCK32R	21768	22345
16	GNMCK85F	4360	4910
16	GNMCK85R	5620	6191
16	GNMCL06F	5123	5624
16	GNMCL06R	3812	4383
16	GNMCL34F	28058	28532
16	GNMCL34R	26957	27535
16	GNMCL63F	31053	31621
16	GNMCL63R	32284	32700
16	GNMCL70F	26168	26684
16	GNMCM31F	50181	50817
16	GNMCM31R	48867	49582
16	GNMCN28F	69538	70215
16	GNMCN28R	68459	69068
16	GNMCN84F	68423	69040
16	GNMCN84R	66998	67589
16	GNMCO18F	2622	3166
16	GNMCO18R	1677	2332
16	GNMCO35F	70510	71084
16	GNMCO35R	69198	69780
16	GNMCP19F	46453	47147
16	GNMCP19R	48299	48962
16	GNMCP43F	14799	15124
16	GNMCQ02F	19223	19930
16	GNMCQ02R	20338	21001
16	GNMCQ22F	21355	22030
16	GNMCQ22R	19917	20600
16	GNMCQ53F	7175	7907

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
16	GNMCQ53R	8198	8928
16	GNMCQ96R	29546	30182
16	GNMCS41F	29075	29776
16	GNMCS68F	9040	9703
16	GNMCS75R	1277	1893
16	GNMCS76F	2498	3167
16	GNMCV38F	37452	37889
16	GNMCV55R	34048	34804
16	GNMCV60F	59043	59536
16	GNMCV60R	57614	58367
16	GNMCX12F	3746	4302
16	GNMCX12R	5111	5734
16	GNMCX21F	11333	11997
16	GNMCX21R	10200	10848
16	GNMCX63F	225	712
16	GNMCY14F	72030	72750
16	GNMCY14R	70731	71300
16	GNMCY23F	43229	43994
16	GNMCY23R	42063	42641
16	GNMCY41F	27768	28553
16	GNMCY41R	28801	29356
16	GNMCY50F	59253	60030
16	GNMCY50R	58094	58480
16	GNMCY59F	48831	49574
16	GNMCY59R	50018	50543
16	GNMCZ40F	12172	12645
16	GNMCZ40R	13578	14094
16	GNMCZ41F	60265	60795
16	GNMCZ41R	61535	62088
16	GNMCZ80F	29797	30278
16	GNMCZ80R	28542	29086
16	GNMCZ90R	34086	34573
17	GNMAA23F	31103	31553
17	GNMAA23R	32120	32558
17	GNMAA31F	20779	21295
17	GNMAA31R	21615	22086
17	GNMAA67F	32770	33282
17	GNMAA67R	33955	34310
17	GNMAB08F	35151	35717
17	GNMAB08R	33887	34310
17	GNMBA18F	51385	51952
17	GNMBA36F	8398	8967
17	GNMBA36R	9832	10331
17	GNMBA54F	57853	58426
17	GNMBA54R	56651	57182
17	GNMBA74F	22767	23336

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
17	GNMBA74R	21413	21911
17	GNMBA85F	33077	33648
17	GNMBA85R	31797	32251
17	GNMCA19F	36042	36621
17	GNMCB06F	26433	26953
17	GNMCB06R	28247	28714
17	GNMCB10F	38250	38813
17	GNMCB10R	36756	37384
17	GNMCB82F	31729	32377
17	GNMCB82R	32858	33235
17	GNMCF22F	37912	38405
17	GNMCF22R	36753	37421
17	GNMCK05F	7321	7797
17	GNMCK05R	5987	6514
17	GNMCK57F	39678	40046
17	GNMCK57R	40958	41325
17	GNMCM38F	10453	11189
17	GNMCM38R	11737	12393
17	GNMCM58F	22688	23288
17	GNMCM58R	23628	24315
17	GNMCN30F	55573	56235
17	GNMCN30R	56832	57420
17	GNMCO01F	27343	28038
17	GNMCO07F	12194	12723
17	GNMCO07R	13433	14166
17	GNMCO26R	5725	6371
17	GNMCO43F	35750	36434
17	GNMCO43R	37161	37681
17	GNMCO44F	32920	33658
17	GNMCO44R	31733	32327
17	GNMCO55F	10439	11147
17	GNMCO55R	12310	12961
17	GNMCO56F	54670	55322
17	GNMCO56R	55704	56309
17	GNMCP57F	10671	10932
17	GNMCP57R	8680	9034
17	GNMCP66F	57727	58211
17	GNMCP66R	58838	59416
17	GNMCQ42F	22050	22733
17	GNMCQ42R	23218	23942
17	GNMCQ81F	41410	42152
17	GNMCQ81R	42968	43610
17	GNMCS03F	707	1334
17	GNMCS35F	52431	53137
17	GNMCS44F	35071	35764
17	GNMCS70F	6806	7540

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
17	GNMCS89F	38449	39120
17	GNMCS90R	39272	39972
17	GNMCV42F	51980	52438
17	GNMCV92F	43715	44212
17	GNMCV92R	42381	43040
17	GNMCX53F	18076	18438
17	GNMCX53R	16832	17267
17	GNMCY21F	26276	26984
17	GNMCY21R	25220	25785
17	GNMCY43F	55511	56209
17	GNMCY58F	10946	11675
17	GNMCY58R	9574	10130
17	GNMCZ14F	4034	4557
17	GNMCZ14R	5449	5997
17	GNMCZ81F	12505	13016
17	GNMCZ81R	10929	11465
18	GNMAA24F	14784	15300
18	GNMAA24R	15822	16278
18	GNMAA91F	3107	3623
18	GNMAA93F	14115	14633
18	GNMAA93R	12779	13156
18	GNMAB47F	6436	7001
18	GNMCA24F	17599	18212
18	GNMCB51F	10483	11109
18	GNMCB51R	9080	9547
18	GNMCK79F	4421	4931
18	GNMCK79R	5949	6533
18	GNMCM27F	17624	18228
18	GNMCM27R	16432	17178
18	GNMCM56F	13615	14160
18	GNMCM56R	14770	15435
18	GNMCN40R	15893	16523
18	GNMCN44F	14468	15195
18	GNMCN44R	15922	16524
18	GNMCP83F	14201	14738
18	GNMCP83R	15673	16259
18	GNMCY13F	2490	3240
18	GNMCZ03F	14791	15109
18	GNMCZ03R	16087	16657
18	GNMCZ15F	6918	7405
18	GNMCZ15R	5483	6044
18	GNMCZ61F	15232	15736
18	GNMCZ61R	16804	17347
19	GNMAA25F	3689	4210
19	GNMAA25R	4679	5150
19	GNMAA53F	17218	17584

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
19	GNMAA53R	16131	16651
19	GNMAB22F	11317	11854
19	GNMBA56F	29237	29799
19	GNMBB20F	42956	43521
19	GNMBB20R	41743	42275
19	GNMCB08F	1626	2186
19	GNMCB08R	2749	3408
19	GNMCB49F	24542	25193
19	GNMCB49R	23154	23800
19	GNMCB50F	1442	2136
19	GNMCB50R	457	1122
19	GNMCB84F	25574	26173
19	GNMCB84R	24112	24577
19	GNMCD36F	32463	32986
19	GNMCF17F	11187	11695
19	GNMCF17R	9855	10520
19	GNMCF56F	43830	44301
19	GNMCF56R	42446	43137
19	GNMCF62F	46052	46506
19	GNMCH41R	48920	49204
19	GNMCK19F	5471	5977
19	GNMCK19R	6934	7451
19	GNMCK60F	19464	19828
19	GNMCK60R	20624	21189
19	GNMCL07F	29947	30379
19	GNMCL07R	31253	31828
19	GNMCL47F	13187	13681
19	GNMCL47R	11739	12309
19	GNMCL67R	10328	10861
19	GNMCM83F	7074	7667
19	GNMCM83R	5824	6505
19	GNMCM87R	6816	7475
19	GNMCN69F	21718	22367
19	GNMCN69R	23279	23896
19	GNMCO19F	7892	8641
19	GNMCO19R	6509	7230
19	GNMCQ23F	22847	23439
19	GNMCQ23R	24531	25070
19	GNMCQ63F	24578	25176
19	GNMCQ63R	23445	24129
19	GNMCS09F	31343	31944
19	GNMCS34F	32710	33397
19	GNMCV13F	11334	11854
19	GNMCV14R	10046	10690
19	GNMCX15F	8333	9060
19	GNMCX15R	10180	10827

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
19	GNMCX27F	8333	9080
19	GNMCX27R	10188	10827
19	GNMCX56F	40847	41203
19	GNMCX56R	41803	42589
19	GNMCX87F	33938	34094
19	GNMCX87R	31659	32349
19	GNMCY07F	37467	38035
19	GNMCZ04R	24380	24843
20	GNMAA26F	11314	11834
20	GNMAA34R	15825	16187
20	GNMBA46F	9402	9971
20	GNMBA83F	9481	10050
20	GNMBA83R	11039	11224
20	GNMBA92F	3716	4284
20	GNMBA92R	2437	2882
20	GNMCA93F	10570	11228
20	GNMCB42F	12316	12924
20	GNMCB42R	10720	11380
20	GNMCF68F	145	549
20	GNMCS13F	3147	3776
20	GNMCS19F	3135	3707
20	GNMCV43F	4932	5463
20	GNMCV43R	3493	4272
20	GNMCX01R	8929	9576
20	GNMCX32F	2827	3582
20	GNMCX32R	1753	2386
21	GNMAA29F	7970	8459
21	GNMAA29R	6973	7381
21	GNMAA79F	60518	61036
21	GNMAA79R	61382	61783
21	GNMAB13F	91199	91695
21	GNMAB13R	90035	90490
21	GNMAB15F	18098	18686
21	GNMAB15R	17088	17514
21	GNMAB38F	89228	89794
21	GNMAB49F	90018	90554
21	GNMAB53F	57859	58423
21	GNMAB76F	69791	70359
21	GNMAB76R	71089	71621
21	GNMBA08F	88398	88981
21	GNMBA08R	89946	90480
21	GNMBA62F	91149	91717
21	GNMBA62R	90149	90587
21	GNMBB08F	57329	57895
21	GNMBB08R	58629	59155
21	GNMCB36F	86172	86807

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
21	GNMCB36R	87700	88359
21	GNMCB40F	55242	55889
21	GNMCB40R	56581	57269
21	GNMCD13F	26267	26840
21	GNMCD13R	24739	25235
21	GNMCD14F	63282	63678
21	GNMCD22F	39214	39744
21	GNMCD89F	20621	21136
21	GNMCD89R	19243	19626
21	GNMCE04F	48264	48570
21	GNMCE16F	8955	9401
21	GNMCE16R	10419	10933
21	GNMCK72F	28120	28413
21	GNMCK72R	29725	30288
21	GNMCK82F	16224	16679
21	GNMCK82R	17910	18284
21	GNMCK92F	21493	21930
21	GNMCK92R	22899	23382
21	GNMCL15F	15475	16027
21	GNMCL15R	16323	16894
21	GNMCL18F	40761	41272
21	GNMCL18R	39414	39980
21	GNMCL35F	58131	58677
21	GNMCL35R	56683	57252
21	GNMCM02F	77632	78241
21	GNMCM02R	76049	76774
21	GNMCM42F	44749	45453
21	GNMCM51F	70991	71600
21	GNMCM51R	72059	72786
21	GNMCM59F	46177	46805
21	GNMCM59R	47628	48296
21	GNMCM67F	58893	59524
21	GNMCM67R	57080	57810
21	GNMCN01F	29541	30134
21	GNMCN03R	26156	26805
21	GNMCN04F	27776	28333
21	GNMCN07F	3923	4589
21	GNMCN20F	23898	24435
21	GNMCN20R	22616	23262
21	GNMCN38R	27178	27843
21	GNMCN42F	28721	29325
21	GNMCN42R	27182	27579
21	GNMCN48F	31545	32275
21	GNMCN48R	30254	30829
21	GNMCN56F	38871	39524
21	GNMCN56R	37891	38510

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
21	GNMCN74R	76122	76780
21	GNMCN76F	76705	77420
21	GNMCN87F	81602	82287
21	GNMCN87R	80523	81087
21	GNMCO27F	12120	12686
21	GNMCO27R	10891	11591
21	GNMCO37R	5718	6199
21	GNMCO40F	81181	81864
21	GNMCO40R	80087	80688
21	GNMCO41F	64583	65194
21	GNMCO41R	63303	63895
21	GNMCO62F	24786	25412
21	GNMCO62R	23316	23927
21	GNMCO69F	29872	30526
21	GNMCO69R	28732	29381
21	GNMCP53R	42568	43118
21	GNMCP68F	17274	17781
21	GNMCP68R	18590	19168
21	GNMCP78F	20880	21383
21	GNMCP78R	22662	23004
21	GNMCQ50F	52354	53080
21	GNMCQ50R	53094	53813
21	GNMCQ56F	24974	25298
21	GNMCQ56R	26318	26938
21	GNMCQ76F	26247	26921
21	GNMCQ76R	27401	28002
21	GNMCQ86F	45276	45978
21	GNMCQ86R	46636	47364
21	GNMCS08F	7772	7922
21	GNMCS22F	49814	50311
21	GNMCS62F	56147	56850
21	GNMCS82F	1052	1732
21	GNMCW22F	55865	56223
21	GNMCX02R	45344	45988
21	GNMCX09F	6251	6931
21	GNMCX09R	4718	5291
21	GNMCX16F	60624	61395
21	GNMCX16R	59855	60393
21	GNMCX60F	40043	40437
21	GNMCX60R	41031	41715
21	GNMCX74F	59663	60378
21	GNMCX74R	58460	59136
21	GNMCY45F	42419	43108
21	GNMCY45R	44124	44642
21	GNMCY64F	58336	59059
21	GNMCY64R	57045	57582

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
21	GNMCZ28F	82973	83440
21	GNMCZ28R	81697	82250
21	GNMCZ46F	28043	28521
21	GNMCZ46R	26632	27064
21	GNMCZ77F	22158	22671
21	GNMCZ77R	23472	24017
22	GNMAA30F	2165	2683
22	GNMAA30R	3510	3980
22	GNMBA03F	25307	25874
22	GNMCB39F	5720	6103
22	GNMCB39R	3638	3945
22	GNMCK48F	14049	14546
22	GNMCK48R	12667	13251
22	GNMCL28F	17498	18022
22	GNMCL28R	16124	16700
22	GNMCM15R	284	872
22	GNMCN47R	4247	4891
22	GNMCO22F	9932	10637
22	GNMCO22R	11087	11794
22	GNMCO23F	10489	11080
22	GNMCO23R	11662	12303
22	GNMCQ04F	25363	26023
22	GNMCQ04R	24009	24693
22	GNMCS17F	5636	6187
22	GNMCS20F	21715	22271
22	GNMCV45F	11101	11552
22	GNMCV45R	12185	12992
22	GNMCV65F	21938	22388
22	GNMCW11F	21268	21882
22	GNMCZ08F	9245	9752
22	GNMCZ56R	4001	4481
22	GNMCZ57F	92	610
22	GNMCZ57R	1391	1949
23	GNMAA32R	501	916
24	GNMAA32F	34126	34644
24	GNMAA78F	12905	13389
24	GNMAA78R	11993	12173
24	GNMAA92F	5430	5906
24	GNMAA92R	6781	6979
24	GNMBA28F	25580	26147
24	GNMBA28R	24581	24744
24	GNMBA64F	44750	45281
24	GNMBA64R	43715	43924
24	GNMCA03F	47978	48229
24	GNMCA11F	5227	5845
24	GNMCB53F	31273	31860

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
24	GNMCB53R	29940	30477
24	GNMCD60F	49318	49836
24	GNMCF28R	25897	26427
24	GNMCF33F	53794	54122
24	GNMCF33R	55250	55649
24	GNMCF55F	18332	18818
24	GNMCF55R	16870	17304
24	GNMCF88F	31085	31484
24	GNMCF88R	29803	30387
24	GNMCF94F	32330	32765
24	GNMCF94R	30474	31147
24	GNMCH39F	20853	21054
24	GNMCH71F	20501	20708
24	GNMCK74F	31152	31629
24	GNMCK74R	32458	33004
24	GNMCK94F	19578	20116
24	GNMCK94R	18368	18866
24	GNMCL74F	16135	16693
24	GNMCL74R	18348	18913
24	GNMCM07F	48543	49161
24	GNMCM07R	47427	48034
24	GNMCM72F	14897	15471
24	GNMCM72R	15789	16445
24	GNMCM86F	32288	32811
24	GNMCM86R	31171	31832
24	GNMCN14F	11430	12112
24	GNMCN14R	12286	12980
24	GNMCN59F	46864	47475
24	GNMCN59R	47935	48525
24	GNMCN60F	22771	23208
24	GNMCN60R	24286	24873
24	GNMCN91F	1694	2415
24	GNMCN91R	411	1022
24	GNMCO65F	4379	5044
24	GNMCO65R	5399	6070
24	GNMCO91F	54004	54574
24	GNMCO91R	55258	55836
24	GNMCP23F	21885	22586
24	GNMCP23R	20351	20912
24	GNMCP71F	53062	53612
24	GNMCP71R	54382	54958
24	GNMCQ33F	31360	32059
24	GNMCQ33R	30167	30816
24	GNMCS10F	52384	52999
24	GNMCS79R	9557	10245
24	GNMCV21F	13147	13602

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
24	GNMCV22R	14356	15028
24	GNMCV63F	11801	12250
24	GNMCV63R	12681	13494
24	GNMCV66F	53565	54040
24	GNMCV66R	52285	53073
24	GNMCV73R	42644	43443
24	GNMCV78F	23665	24161
24	GNMCV78R	24559	25362
24	GNMCX22F	8574	9293
24	GNMCX22R	9681	10320
24	GNMCX33F	23234	23994
24	GNMCX33R	21803	22176
24	GNMCX34F	23296	23994
24	GNMCX34R	21787	22355
24	GNMCX40F	28130	28866
24	GNMCX40R	29005	29697
24	GNMCX70F	10118	10635
24	GNMCX70R	11461	12043
24	GNMCX72F	27541	27741
24	GNMCY35F	32221	32765
24	GNMCY35R	31087	31546
24	GNMCY55F	45603	46359
24	GNMCY66R	2897	3449
24	GNMCY77F	29179	29866
24	GNMCY77R	27766	28254
24	GNMCY82F	9582	10184
24	GNMCY82R	11010	11421
24	GNMCY94F	6998	7520
24	GNMCY96F	22341	22994
24	GNMCY96R	23886	24294
24	GNMCZ37F	24346	24873
24	GNMCZ37R	23379	23953
25	GNMAA34F	450	701
25	GNMBA48F	4952	5519
25	GNMBA48R	4021	4222
25	GNMCA16F	14824	15438
25	GNMCB09F	22420	22990
25	GNMCB09R	23872	24453
25	GNMCD04F	2415	2961
25	GNMCD04R	1176	1633
25	GNMCK09F	3101	3667
25	GNMCK09R	4706	5009
25	GNMCK50F	8704	9235
25	GNMCK50R	10150	10511
25	GNMCM76R	3069	3807
25	GNMCM96F	13743	14447

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
25	GNMCM96R	12253	12837
25	GNMCN04R	15105	15705
25	GNMCN05F	13789	14485
25	GNMCP16F	9455	10151
25	GNMCP16R	8452	8076
25	GNMCP62R	9951	10498
25	GNMCX61F	2028	2420
25	GNMCX61R	3150	3850
25	GNMCY04F	10846	11249
25	GNMCY04R	12076	12645
25	GNMCZ20F	13438	13952
25	GNMCZ20R	12311	12881
26	GNMAA37F	45118	45485
26	GNMAA37R	46181	46702
26	GNMAA44F	38832	39198
26	GNMAA44R	37468	37990
26	GNMBB25F	2584	3149
26	GNMBB25R	4308	4852
26	GNMCA28F	34335	34909
26	GNMCB61F	37090	37493
26	GNMCE76F	146	542
26	GNMCE76R	1633	1980
26	GNMCF66F	27879	28279
26	GNMCF66R	29423	30059
26	GNMCL21F	39439	39981
26	GNMCL21R	37698	38034
26	GNMCL69F	3546	4121
26	GNMCL69R	4207	4797
26	GNMCM34R	3940	4653
26	GNMCM89F	5891	6343
26	GNMCM89R	7010	7718
26	GNMCM92R	30750	31399
26	GNMCN54F	28683	29364
26	GNMCN54R	27207	27807
26	GNMCN79F	51540	52223
26	GNMCN79R	50402	50941
26	GNMCO14F	33740	34469
26	GNMCO14R	35347	36067
26	GNMCQ26F	47379	47982
26	GNMCQ26R	48736	49406
26	GNMCS81F	36588	37281
26	GNMCS88F	19142	19409
26	GNMCS89R	17251	18014
26	GNMCV32F	18038	18514
26	GNMCV33F	30470	30781
26	GNMCV33R	28683	29309

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
26	GNMCV70F	41545	42025
26	GNMCV70R	42579	43282
26	GNMCV76F	30234	30720
26	GNMCV76R	31359	32063
26	GNMCV86R	42591	43300
26	GNMCV87F	41330	41805
26	GNMCV87R	42509	43300
26	GNMCX26R	42058	42510
26	GNMCY31R	1275	1860
26	GNMCY86F	27767	28402
26	GNMCY86R	26306	26736
26	GNMCZ13F	23798	24317
26	GNMCZ13R	24994	25572
26	GNMCZ64F	26763	27169
26	GNMCZ64R	27996	28534
26	GNMCZ71F	47451	47955
26	GNMCZ71R	46061	46606
26	GNMCZ95R	8013	8499
26	GNMCZ96R	8005	8483
27	GNMAA41F	3036	3402
27	GNMAA41R	2156	2677
27	GNMAA65F	58776	59296
27	GNMAA65R	60307	60457
27	GNMAB83F	38177	38746
27	GNMAB83R	36806	37326
27	GNMAB86F	20818	21390
27	GNMAB86R	21914	22429
27	GNMAB92F	21743	22226
27	GNMBA25F	28880	29408
27	GNMBA25R	27506	28043
27	GNMBA49F	40184	40752
27	GNMCB28F	15988	16497
27	GNMCB28R	14642	15180
27	GNMCB30R	14648	14996
27	GNMCB35F	33768	34099
27	GNMCB35R	32048	32548
27	GNMCB37F	31837	32567
27	GNMCB37R	30832	31421
27	GNMCB58F	30329	31041
27	GNMCB58R	31809	32460
27	GNMCD63F	15824	16290
27	GNMCD79F	63644	64156
27	GNMCD79R	62110	62364
27	GNMCF64F	41517	41871
27	GNMCF84F	518	956
27	GNMCF84R	1834	2533

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
27	GNMCF85F	6358	6815
27	GNMCF85R	7680	8383
27	GNMCH76F	22610	22988
27	GNMCH77F	22613	22953
27	GNMCK01F	62394	62733
27	GNMCK01R	60889	61415
27	GNMCK18F	66502	66997
27	GNMCK18R	65282	65724
27	GNMCK25F	27644	28213
27	GNMCK61F	32761	33107
27	GNMCK61R	30995	31329
27	GNMCK76F	19003	19542
27	GNMCK76R	17573	18122
27	GNMCK81F	61093	61511
27	GNMCK81R	59863	60445
27	GNMCK87F	36885	36998
27	GNMCK87R	34928	35498
27	GNMCL44F	38519	39001
27	GNMCL44R	37283	37863
27	GNMCL76F	49805	50300
27	GNMCL76R	48285	48854
27	GNMCM23F	27097	27789
27	GNMCM23R	25771	26483
27	GNMCN12F	8559	9239
27	GNMCN12R	7161	7752
27	GNMCN13F	68144	68833
27	GNMCN13R	66871	67394
27	GNMCN17F	36140	36815
27	GNMCN17R	35179	35753
27	GNMCN18F	55803	56468
27	GNMCN18R	54618	55229
27	GNMCN34F	59534	60268
27	GNMCN34R	19457	20056
27	GNMCN38F	17980	18719
27	GNMCN61F	18037	18594
27	GNMCN61R	19452	20056
27	GNMCN70F	32750	33421
27	GNMCN80R	37432	38115
27	GNMCN81F	38597	39329
27	GNMCN81R	37434	38096
27	GNMCO02R	59813	60549
27	GNMCO38F	51253	51930
27	GNMCO52R	33701	34400
27	GNMCO57F	37843	38469
27	GNMCO57R	36757	37320
27	GNMCP50F	7088	7522

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
27	GNMCP50R	5679	6058
27	GNMCQ93R	2933	3510
27	GNMCS49F	11768	12343
27	GNMCV50F	28795	29193
27	GNMCV50R	27644	28413
27	GNMCV85F	21568	22089
27	GNMCV85R	22559	23351
27	GNMCW02F	47088	47658
27	GNMCW24F	56091	56713
27	GNMCY27R	5455	5536
27	GNMCY33F	37884	38598
27	GNMCY33R	39134	39678
27	GNMCY62F	39794	40529
27	GNMCY62R	41156	41683
27	GNMCY63F	39843	40316
27	GNMCY72F	15711	16330
27	GNMCY72R	14681	15239
28	GNMAA45F	4450	4816
28	GNMAA54R	4273	4733
28	GNMCD82F	1790	2266
28	GNMCD82R	3389	3826
28	GNMCO78F	6645	7293
28	GNMCO86F	6688	7310
28	GNMCO86R	8039	8651
28	GNMCW05F	6711	7331
28	GNMCZ09F	13148	13623
28	GNMCZ09R	11925	12279
29	GNMAA47F	27107	27473
29	GNMAA47R	25852	26322
29	GNMAA71F	19984	20503
29	GNMAA71R	21408	21826
29	GNMAA80R	20918	21282
29	GNMAB31F	32769	33333
29	GNMAB31R	31525	31942
29	GNMAB77F	21439	22007
29	GNMAB77R	22335	22857
29	GNMCA22F	9411	10028
29	GNMCB74F	26713	27450
29	GNMCB74R	25839	26476
29	GNMCD08F	17015	17514
29	GNMCD31F	19776	20146
29	GNMCF43F	26320	26631
29	GNMCF43R	27361	28023
29	GNMCF87F	30819	31269
29	GNMCF87R	32125	32845
29	GNMCH41F	30939	31379

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
29	GNMCK20F	2703	3104
29	GNMCK20R	4020	4346
29	GNMCL02F	32166	32619
29	GNMCL02R	33533	33884
29	GNMCL12F	360	831
29	GNMCL12R	1490	2039
29	GNMCL73R	32923	33504
29	GNMCL85R	10861	11425
29	GNMCM77F	17717	18313
29	GNMCM77R	16440	17172
29	GNMCN64F	6192	6750
29	GNMCN64R	7430	8018
29	GNMCN68F	30002	30712
29	GNMCN83F	34059	34776
29	GNMCN83R	32873	33458
29	GNMCO28F	7197	7872
29	GNMCO28R	8396	9089
29	GNMCO53F	20633	21342
29	GNMCO53R	22061	22663
29	GNMCO67F	1523	2102
29	GNMCO67R	2871	3524
29	GNMCP82F	30881	31419
29	GNMCP82R	29550	30117
29	GNMCS26F	30683	31168
29	GNMCS90F	16067	16703
29	GNMCS91R	16949	17757
29	GNMCW09F	3770	4381
29	GNMCY19F	14037	14742
29	GNMCY89F	7491	8173
30	GNMAA48R	1027	1347
30	GNMAB21R	3608	4233
30	GNMCC90F	7658	8102
30	GNMCL10F	2942	3470
30	GNMCL10R	4319	4883
30	GNMCM64R	7645	8319
30	GNMCO63F	12259	12933
30	GNMCO63R	11104	11789
30	GNMCP58F	8513	9047
30	GNMCP58R	10322	10707
30	GNMCV03F	10383	10724
30	GNMCV04R	8992	9749
30	GNMCX06F	11346	12072
30	GNMCX06R	12784	13418
30	GNMCX18F	11968	12726
30	GNMCX18R	13547	14189
30	GNMCX71F	9073	9653

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
30	GNMCX71R	7669	8353
30	GNMCY15F	3214	3933
30	GNMCY15R	1508	2079
31	GNMAA49F	7079	7444
31	GNMAA49R	5736	6260
31	GNMBA38F	692	1262
31	GNMBA79F	7797	8367
31	GNMCL32F	3721	4184
31	GNMCL32R	2230	2815
31	GNMCN88F	1761	2482
31	GNMCN88R	3292	3892
31	GNMCQ51F	3265	3909
31	GNMCQ51R	4295	5012
31	GNMCX63R	7311	8010
31	GNMCY61R	4386	4868
31	GNMCY91F	2862	3456
32	GNMAA52F	1739	2107
32	GNMAA52R	2617	3138
32	GNMAA89F	13148	13666
32	GNMAB90F	5624	6192
32	GNMAB90R	6600	7118
32	GNMCF38F	3403	3878
32	GNMCF38R	4584	5237
32	GNMCK38F	6598	7143
32	GNMCK38R	5207	5792
32	GNMCP85F	6949	7473
32	GNMCP85R	5282	5869
32	GNMCQ07F	10995	11623
32	GNMCQ07R	12678	13358
32	GNMCV23F	5455	5912
32	GNMCV24R	4006	4751
32	GNMCX13F	9897	10671
32	GNMCX13R	8710	9345
32	GNMCX45F	3857	4557
32	GNMCX45R	2724	3424
32	GNMCX57F	6426	6642
32	GNMCX57R	6424	6642
32	GNMCY06F	10183	10812
32	GNMCY06R	9259	9808
33	GNMAA57F	2954	3324
33	GNMAA57R	1924	2445
33	GNMAB30F	5838	6402
33	GNMAB30R	4864	5193
33	GNMAB48F	8816	9381
33	GNMBA50F	7809	8374
33	GNMBA50R	6161	6686

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
33	GNMCA25F	18305	18918
33	GNMCA80F	3189	3849
33	GNMCL88F	12841	13492
33	GNMCL88R	11494	12038
33	GNMCM57F	6934	7569
33	GNMCM57R	7814	8548
33	GNMCN49F	18067	18780
33	GNMCN49R	16729	17352
33	GNMCO54F	17815	18524
33	GNMCO54R	16974	17598
33	GNMCP59F	13173	13631
33	GNMCP59R	14668	15102
33	GNMCQ29F	13338	14036
33	GNMCQ29R	11998	12686
33	GNMCQ87F	5967	6847
33	GNMCQ87R	7354	7981
33	GNMCS47F	7736	8481
33	GNMCV30F	18040	18529
33	GNMCV31F	1808	2293
33	GNMCV31R	16473	17092
33	GNMCV32R	2897	3643
33	GNMCY12F	13632	14327
33	GNMCY12R	14891	15465
33	GNMCZ12F	14374	14860
33	GNMCZ12R	12879	13414
34	GNMAA59R	20271	20800
34	GNMAB63F	21594	22082
34	GNMAB87F	4234	4656
34	GNMAB93F	8137	8678
34	GNMAB93R	7021	7543
34	GNMBA26F	17728	18076
34	GNMBA31R	20426	20952
34	GNMBA60F	2998	3582
34	GNMBA60R	4887	5305
34	GNMBA89F	12688	13184
34	GNMBA89R	11336	11869
34	GNMBA90F	1963	2532
34	GNMBA90R	3410	3918
34	GNMBB10F	18931	19469
34	GNMBB10R	20494	20791
34	GNMCA73F	10776	11434
34	GNMCD09F	1576	2151
34	GNMCD09R	202	580
34	GNMCL40F	6504	7032
34	GNMCL40R	7906	8476
34	GNMCM41F	15257	15722

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
34	GNMCM41R	13646	14279
34	GNMCM84F	10143	10755
34	GNMCM84R	11418	12090
34	GNMCP65R	13124	13566
34	GNMCQ57F	1107	1637
34	GNMCQ57R	2550	3230
34	GNMCV15F	10810	11260
34	GNMCV16R	9522	10243
34	GNMCX35F	24683	25380
34	GNMCX35R	25964	26651
34	GNMCX48F	27078	27683
34	GNMCX48R	25636	26324
34	GNMCZ82R	4431	4970
35	GNMAA60R	9724	9928
35	GNMAA81R	42064	42495
35	GNMAB09F	29605	30171
35	GNMBA37F	1865	2426
35	GNMBA37R	755	1265
35	GNMCA66F	14095	14490
35	GNMCB95F	29548	30210
35	GNMCB95R	28364	28994
35	GNMCD41F	4298	4824
35	GNMCD41R	2960	3326
35	GNMCD49F	47011	47510
35	GNMCD49R	45671	46032
35	GNMCD52F	46968	47374
35	GNMCE13F	44763	45068
35	GNMCE13R	43656	44020
35	GNMCK86F	32959	33472
35	GNMCL94F	45671	46185
35	GNMCL94R	44388	44948
35	GNMCM08F	32206	32865
35	GNMCM08R	33769	34324
35	GNMCN16F	11716	12326
35	GNMCN16R	10117	10693
35	GNMCN33F	2863	3568
35	GNMCN33R	4337	4927
35	GNMCO11F	117	667
35	GNMCO11R	1479	2220
35	GNMCO20F	41254	41858
35	GNMCO20R	42840	43385
35	GNMCP03R	15135	15820
35	GNMCP33F	33871	34386
35	GNMCP33R	31902	32446
35	GNMCS31F	25024	25611
35	GNMCS80F	26013	26719

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
35	GNMCV20F	11142	11598
35	GNMCV21R	9547	10242
35	GNMCV41F	1508	1764
35	GNMCV41R	2993	3375
35	GNMCV46F	19148	19638
35	GNMCX37F	10287	10978
35	GNMCX75F	16758	17496
35	GNMCX75R	17915	18615
35	GNMCY38F	35286	36002
35	GNMCY38R	36447	37009
35	GNMCZ63F	17628	18139
35	GNMCZ63R	16308	16866
36	GNMAA61F	17639	18003
36	GNMAA61R	19148	19669
36	GNMAB14F	9325	9894
36	GNMAB14R	10480	10900
36	GNMAB23F	5098	5510
36	GNMAB23R	5999	6420
36	GNMBA04F	7545	8114
36	GNMBA04R	8552	9087
36	GNMCB81F	1908	2616
36	GNMCB81R	1189	1739
36	GNMCD86F	266	753
36	GNMCD86R	1917	2276
36	GNMCL29F	19188	19732
36	GNMCL46F	5977	6459
36	GNMCL46R	6855	7431
36	GNMCL71R	2286	2862
36	GNMCN74F	8750	9460
36	GNMCN76R	7557	8138
36	GNMCP37R	5055	5645
36	GNMCS39F	3380	4120
36	GNMCV57F	6730	7217
36	GNMCV57R	7760	8463
36	GNMCX54F	7658	7977
36	GNMCX54R	6197	6884
36	GNMCY85R	6699	7077
36	GNMCZ06F	17782	18302
36	GNMCZ73F	15242	15755
37	GNMAA64F	11674	12041
37	GNMAA64R	10619	11088
37	GNMAB25F	25946	26508
37	GNMAB25R	27013	27437
37	GNMAB32R	446	844
37	GNMAB89F	2515	3085
37	GNMAB89R	3403	3923

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
37	GNMAB91F	19524	19900
37	GNMAB91R	18389	18909
37	GNMCA84F	8986	9651
37	GNMCA92F	10174	10831
37	GNMCB13F	28388	28959
37	GNMCB44F	17203	17885
37	GNMCB44R	16050	16676
37	GNMCB72F	15012	15708
37	GNMCB72R	16365	16857
37	GNMCD32F	4633	5112
37	GNMCD32R	2775	3142
37	GNMCD34F	21613	22123
37	GNMCD34R	23152	23452
37	GNMCD43F	23745	24277
37	GNMCF03F	23267	23766
37	GNMCF03R	21815	22457
37	GNMCK16F	12575	13127
37	GNMCK69R	981	1281
37	GNMCL41F	4846	5357
37	GNMCL41R	6380	6932
37	GNMCM06R	17272	17986
37	GNMCM82F	14731	15358
37	GNMCM82R	15814	16507
37	GNMCQ08F	20211	20740
37	GNMCQ08R	18866	19521
37	GNMCQ59F	16099	16826
37	GNMCQ59R	15132	15853
37	GNMCS58F	16358	17054
37	GNMCV94F	21841	22327
37	GNMCV94R	20477	21267
37	GNMCX07F	25522	26245
37	GNMCX07R	26310	26960
37	GNMCX69F	10320	10866
37	GNMCX69R	11842	12449
37	GNMCX93F	7947	8360
37	GNMCX93R	6445	6970
37	GNMCY18F	10778	11193
37	GNMCY18R	9630	10203
37	GNMCY67F	26216	26689
37	GNMCY67R	24588	24992
37	GNMCZ87F	28035	28543
37	GNMCZ87R	26386	26930
38	GNMAA74F	185	702
38	GNMAB59F	370	710
38	GNMCM68F	512	991
39	GNMBA35F	3187	3756

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
39	GNMCL49F	518	1003
39	GNMCM19F	3839	4413
39	GNMCM19R	2735	3480
39	GNMCM68R	3717	4374
39	GNMCN15F	11	695
39	GNMCN15R	1589	2038
39	GNMCS14F	2485	3018
39	GNMCV29F	4010	4481
39	GNMCV30R	2621	3321
39	GNMCZ91F	4347	4839
39	GNMCZ91R	3070	3594
40	GNMAA75F	1493	2009
40	GNMBA84F	14749	15315
40	GNMBA84R	13039	13401
40	GNMBB27F	7031	7629
40	GNMBB27R	5877	6280
40	GNMCA65F	10805	11468
40	GNMCF01F	9563	10038
40	GNMCF01R	7689	8249
40	GNMCF52F	13446	13800
40	GNMCF52R	14807	15448
40	GNMCK41F	1322	1894
40	GNMCK41R	1	549
40	GNMCN01R	8094	8689
40	GNMCN02F	6573	7152
40	GNMCY39F	12214	12932
40	GNMCY39R	11377	11773
40	GNMCZ75F	4573	5040
40	GNMCZ75R	3272	3824
41	GNMAA82F	1944	2123
41	GNMAA82R	540	848
41	GNMCA09F	4155	4769
41	GNMCL45F	5831	6382
41	GNMCL45R	7014	7592
41	GNMCX84F	6407	7029
41	GNMCX84R	4937	5630
41	GNMCZ07F	753	1256
41	GNMCZ07R	2139	2681
42	GNMAA85F	33488	34005
42	GNMAA85R	34461	34906
42	GNMAB11F	27021	27587
42	GNMAB16F	16195	16762
42	GNMAB16R	17262	17683
42	GNMAB51F	32336	32901
42	GNMAB64F	9048	9478
42	GNMBA52F	25714	26279

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
42	GNMBA52R	26930	27429
42	GNMBA63F	25856	26418
42	GNMCA10F	9199	9803
42	GNMCA90F	12306	12957
42	GNMCD76F	43170	43607
42	GNMCD80F	25485	25983
42	GNMCD80R	24100	24472
42	GNMCD81F	25467	25981
42	GNMCF21F	42792	43250
42	GNMCF21R	43820	44488
42	GNMCF79F	19953	20412
42	GNMCF79R	18429	19107
42	GNMCH08F	10638	10983
42	GNMCH61F	35608	36017
42	GNMCK58F	11541	12006
42	GNMCK58R	13419	13981
42	GNMCM03R	37448	38182
42	GNMCM48F	1	622
42	GNMCM48R	1215	1878
42	GNMCO34F	11655	12379
42	GNMCO34R	10537	11201
42	GNMCO70R	39192	39848
42	GNMCO84F	24768	25509
42	GNMCO84R	24098	24770
42	GNMCP29F	40509	41019
42	GNMCP29R	38958	39359
42	GNMCQ60F	38032	38565
42	GNMCQ69F	8563	9122
42	GNMCQ69R	6981	7666
42	GNMCS69F	3213	3921
42	GNMCV25F	17625	18095
42	GNMCV26R	16021	16633
42	GNMCX46F	4775	5450
42	GNMCX46R	3438	4125
42	GNMCX88R	17104	17778
42	GNMCY37F	7223	7838
42	GNMCY37R	5827	6323
42	GNMCY69F	22213	22853
42	GNMCY69R	21279	21796
42	GNMCZ85F	19300	19813
43	GNMAA86F	5244	5760
43	GNMAA86R	4311	4783
43	GNMCS54F	3163	3797
43	GNMCV84F	1109	1600
43	GNMCV84R	2002	2781
44	GNMAA87F	26931	27447

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
44	GNMAA87R	27952	28381
44	GNMAA90F	6714	7230
44	GNMAA90R	8124	8276
44	GNMAB27F	4036	4603
44	GNMAB27R	4804	5327
44	GNMCD11F	4246	4813
44	GNMCD11R	5623	6146
44	GNMCQ17F	6327	7009
44	GNMCQ17R	7631	8317
44	GNMCQ67F	1410	2013
44	GNMCQ67R	2571	3261
44	GNMCS92F	21392	22037
44	GNMCS94R	22779	23479
44	GNMCS96F	22613	22986
44	GNMCX79F	14815	15344
44	GNMCX79R	16086	16760
44	GNMCZ44F	19312	19820
44	GNMCZ44R	20486	21049
45	GNMAA88F	3827	4313
45	GNMBA05F	7835	8403
45	GNMBA05R	6395	6824
45	GNMCZ39F	143	619
45	GNMCZ39R	1545	2114
46	GNMAA94F	5740	6254
46	GNMAA94R	6575	7044
46	GNMAB29F	659	1225
46	GNMAB29R	1671	2298
46	GNMAB78F	16523	16951
46	GNMAB78R	15145	15686
46	GNMCA05F	4467	5137
46	GNMCD25F	11261	11830
46	GNMCD25R	10058	10529
46	GNMCD45F	4725	5273
46	GNMCD45R	3455	3826
46	GNMCD72F	12772	13251
46	GNMCD72R	14201	14542
46	GNMCK45F	6680	7258
46	GNMCK45R	5280	5857
46	GNMCK53F	9263	9636
46	GNMCK53R	10581	11122
46	GNMCN62R	20059	20608
46	GNMCO72F	11911	12654
46	GNMCO72R	10592	11291
46	GNMCS38F	8266	8953
46	GNMCS50F	9604	10313
46	GNMCY09F	18777	19443

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
46	GNMCY09R	20339	20885
46	GNMCY48F	13317	14054
46	GNMCY48R	12373	12900
47	GNMAB03F	39285	39849
47	GNMAB03R	40395	40825
47	GNMAB57F	8125	8631
47	GNMAB62F	5129	5697
47	GNMAB72F	25957	26522
47	GNMAB72R	26812	27332
47	GNMBA39F	10581	11112
47	GNMBA39R	9272	9805
47	GNMBA68F	33182	33747
47	GNMBA68R	32098	32634
47	GNMBB31F	46909	47485
47	GNMBB31R	45477	45996
47	GNMCB64F	8634	9225
47	GNMCB64R	9880	10466
47	GNMCD39F	26389	26882
47	GNMCF18F	42096	42592
47	GNMCF18R	40473	41111
47	GNMCF47F	46147	46634
47	GNMCF47R	44893	45560
47	GNMCK29F	14259	14820
47	GNMCK29R	12913	13476
47	GNMCK33F	11732	12246
47	GNMCK33R	10377	10759
47	GNMCK51F	19259	19619
47	GNMCK51R	17899	18248
47	GNMCL24F	21022	21491
47	GNMCL24R	19374	19922
47	GNMCL66F	34263	34768
47	GNMCL66R	35478	36049
47	GNMCM30R	35959	36642
47	GNMCM37R	18280	18787
47	GNMCN36F	28250	28958
47	GNMCN73F	29393	30074
47	GNMCN73R	28267	28921
47	GNMCN93F	1262	1971
47	GNMCN93R	2446	2878
47	GNMCO45F	14719	15397
47	GNMCO45R	15952	16635
47	GNMCO49F	38118	38828
47	GNMCO49R	39315	39845
47	GNMCO60F	21461	22152
47	GNMCO60R	19964	20648
47	GNMCO83R	16405	17063

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
47	GNMCP08F	4600	5318
47	GNMCP08R	5704	6436
47	GNMCP12F	44482	45180
47	GNMCP12R	43247	43929
47	GNMCQ70F	28264	28919
47	GNMCQ70R	27232	27902
47	GNMCS79F	28111	28860
47	GNMCX52F	44094	44441
47	GNMCX52R	45425	46100
47	GNMCX73F	8582	9157
47	GNMCX73R	7456	8141
47	GNMCY08F	22073	22785
47	GNMCY08R	20965	21539
47	GNMCY17F	13457	14071
47	GNMCY17R	12199	12710
47	GNMCY60F	4726	5396
47	GNMCY60R	3394	3937
47	GNMCZ72F	26112	26584
47	GNMCZ72R	27111	27642
48	GNMAB10F	45864	46429
48	GNMAB10R	46823	47246
48	GNMAB26F	18205	18771
48	GNMAB26R	17068	17496
48	GNMAB46F	39600	40166
48	GNMAB71F	36266	36835
48	GNMAB71R	35583	35981
48	GNMBA10F	24081	24641
48	GNMBA10R	25627	26158
48	GNMCA01F	2669	3310
48	GNMCA69F	24907	25573
48	GNMCA77F	44240	44904
48	GNMCB68F	48529	49183
48	GNMCB68R	49751	50229
48	GNMCD05F	61093	61524
48	GNMCD05R	47029	47548
48	GNMCD24F	41436	41982
48	GNMCD24R	42664	43161
48	GNMCD70F	43366	43798
48	GNMCE06F	45703	46081
48	GNMCE07R	46605	47129
48	GNMCE90F	6380	6925
48	GNMCE90R	5283	5799
48	GNMCF24F	56963	57448
48	GNMCF24R	55581	56243
48	GNMCF70R	50946	51263
48	GNMCF93F	46705	47157

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
48	GNMCF93R	48122	48692
48	GNMCH40F	24168	24458
48	GNMCH64F	60688	61022
48	GNMCK08F	12988	13530
48	GNMCK08R	11548	12144
48	GNMCK31F	48379	48939
48	GNMCK31R	47177	47731
48	GNMCK46F	13297	13814
48	GNMCK46R	12071	12654
48	GNMCK56F	29433	29963
48	GNMCK56R	27927	28487
48	GNMCK70F	41792	42156
48	GNMCK70R	43324	43888
48	GNMCL05F	22552	23041
48	GNMCL05R	21742	22293
48	GNMCL61F	15321	15724
48	GNMCL61R	14006	14449
48	GNMCL86F	23803	24358
48	GNMCL86R	22389	22965
48	GNMCM40F	60172	60784
48	GNMCM40R	43992	44623
48	GNMCM49R	63033	63741
48	GNMCM60F	28595	29249
48	GNMCM60R	27285	27929
48	GNMCN95F	21768	22424
48	GNMCN96F	52482	53159
48	GNMCO12F	49771	50550
48	GNMCO12R	49060	49698
48	GNMCO76F	26934	27624
48	GNMCO76R	25392	26062
48	GNMCO90F	10121	10652
48	GNMCO90R	8744	9318
48	GNMCP81F	26207	26575
48	GNMCP81R	27441	28017
48	GNMCQ16R	1	661
48	GNMCQ36R	13779	14476
48	GNMCQ48F	44157	44770
48	GNMCQ48R	43032	43754
48	GNMCQ64F	12475	13200
48	GNMCQ66F	12668	13370
48	GNMCQ66R	13747	14472
48	GNMCQ89F	16922	17619
48	GNMCV06F	48695	49152
48	GNMCV07R	47510	48231
48	GNMCV11F	26723	27238
48	GNMCV12R	27836	28452

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
48	GNMCV18F	35744	36244
48	GNMCV19R	34453	35205
48	GNMCV82F	8278	8644
48	GNMCV82R	8280	8645
48	GNMCV96F	45980	46492
48	GNMCV96R	44480	45162
48	GNMCX28F	42846	43632
48	GNMCX28R	44129	44767
48	GNMCX29F	59233	59986
48	GNMCX29R	58344	58984
48	GNMCX42F	22170	22862
48	GNMCX42R	23577	24264
48	GNMCX50F	29838	30232
48	GNMCX50R	30953	31633
48	GNMCX80F	30031	30735
48	GNMCX80R	31536	32224
48	GNMCY70F	13009	13629
48	GNMCY70R	11725	12281
48	GNMCZ84R	4001	4533
49	GNMAB32F	401	684
50	GNMAB35F	17857	18274
50	GNMBA70F	14615	15180
50	GNMBA70R	15849	16383
50	GNMCB20R	20852	21453
50	GNMCB89F	12569	13223
50	GNMCB89R	14045	14508
50	GNMCF67F	4524	4879
50	GNMCF67R	3257	3858
50	GNMCH89F	19690	20140
50	GNMCH89R	18248	18535
50	GNMCK49F	20201	20665
50	GNMCK49R	18771	19297
50	GNMCM01F	2158	2770
50	GNMCM01R	708	1314
50	GNMCN41F	21893	22570
50	GNMCN41R	23128	23476
50	GNMCO04F	2174	2638
50	GNMCO04R	837	1541
50	GNMCO82F	16481	17139
50	GNMCO82R	17538	18219
50	GNMCP61F	13046	13330
50	GNMCP61R	14605	15154
50	GNMCS33F	27679	28393
50	GNMCV22F	21920	22410
50	GNMCV23R	20644	21369
50	GNMCV47F	17147	17659

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
50	GNMCV47R	18206	18900
50	GNMCV58R	1132	1905
50	GNMCV59R	1242	1814
50	GNMCX41F	3977	4725
50	GNMCX41R	5212	5916
50	GNMCY22F	22454	23103
50	GNMCY29R	22461	23008
50	GNMCY71F	10078	10646
50	GNMCY71R	9041	9543
50	GNMCZ52F	20698	21140
50	GNMCZ52R	22156	22569
50	GNMCZ94F	3890	4317
50	GNMCZ94R	5230	5743
50	GNMCZ95F	3902	4346
50	GNMCZ96F	3902	4346
51	GNMAB39F	5946	6511
51	GNMBA51F	8613	9139
51	GNMBA51R	6844	7329
51	GNMCL84F	7136	7509
51	GNMCL84R	8501	9072
51	GNMCO08R	979	1711
51	GNMCY10F	1194	1921
51	GNMCY10R	50	610
51	GNMCZ33F	3405	3947
51	GNMCZ33R	4668	5244
52	GNMAB40F	15814	16385
52	GNMCB93F	7437	8109
52	GNMCB93R	8732	9304
52	GNMCF69F	9103	9470
52	GNMCF69R	7871	8573
52	GNMCF92F	2901	3235
52	GNMCF92R	1359	2018
52	GNMCL51F	16830	17360
52	GNMCL51R	18234	18580
52	GNMCM61R	12794	13378
52	GNMCN24F	1	676
52	GNMCN24R	1452	2016
52	GNMCO31F	17039	17664
52	GNMCO31R	18187	18861
52	GNMCS05F	11540	12169
52	GNMCX49F	10221	10402
52	GNMCX49R	8569	9260
52	GNMCX96R	4202	4835
52	GNMCZ83F	11839	12349
52	GNMCZ83R	13065	13609
53	GNMAB50F	81	306

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
54	GNMAB60F	4573	5141
54	GNMCD66F	258	750
55	GNMAB68F	1314	1623
55	GNMCB73F	3597	4316
55	GNMCB73R	5062	5644
55	GNMCM35F	3120	3883
55	GNMCM35R	2555	3288
55	GNMCX47F	5493	6201
55	GNMCX47R	4289	4982
55	GNMCY34F	5585	6305
56	GNMAB79R	1	246
57	GNMAB80F	19923	20432
57	GNMAB80R	21103	21624
57	GNMBA07F	14530	15093
57	GNMBA07R	15847	16378
57	GNMCB11R	30694	31243
57	GNMCB47F	29518	30234
57	GNMCB47R	28242	28881
57	GNMCD55F	32760	33171
57	GNMCE88F	13260	13679
57	GNMCE88R	14546	15037
57	GNMCF06F	16859	17358
57	GNMCF06R	15242	15921
57	GNMCF40F	18554	19027
57	GNMCF40R	19698	20365
57	GNMCF50F	20435	20910
57	GNMCF50R	21576	22262
57	GNMCF63F	30402	30884
57	GNMCF63R	28818	29412
57	GNMCF86R	32361	33020
57	GNMCK71F	8763	9100
57	GNMCK71R	10055	10613
57	GNMCL95F	3611	4223
57	GNMCL95R	2299	2801
57	GNMCN67F	20529	21208
57	GNMCN67R	19529	20102
57	GNMCP09F	2860	3520
57	GNMCP09R	1894	2615
57	GNMCP70F	17618	18104
57	GNMCP70R	18924	19511
57	GNMCP79F	8875	9372
57	GNMCP79R	10275	10855
57	GNMCQ41F	20359	21104
57	GNMCQ41R	19619	20345
57	GNMCQ44F	10270	10898
57	GNMCQ44R	11575	12244

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
57	GNMCS16F	20638	20868
57	GNMCS86F	30569	31246
57	GNMCV34F	21537	21988
57	GNMCY40F	20132	20855
57	GNMCY40R	19153	19716
57	GNMCY49R	26133	26607
57	GNMCY80F	8452	8787
57	GNMCY80R	6998	7416
57	GNMCY90F	19373	19946
57	GNMCZ43F	31206	31711
57	GNMCZ43R	32436	32921
58	GNMAB82F	9525	10095
58	GNMAB82R	8509	9029
58	GNMCO58R	15112	15768
58	GNMCY78R	3411	3857
58	GNMCY83F	11793	12472
58	GNMCY83R	10643	11053
59	GNMAB85F	2737	3302
59	GNMAB85R	1900	2305
59	GNMCO33F	2304	2941
59	GNMCO33R	1257	1881
59	GNMCX86F	2826	3461
59	GNMCX86R	1441	2128
59	GNMCZ32F	1619	2126
59	GNMCZ32R	2661	3195
60	GNMAB95F	13774	14279
60	GNMAB95R	15289	15810
60	GNMCA30F	937	1556
60	GNMCD44F	303	826
60	GNMCF04F	9775	10276
60	GNMCF04R	8305	8976
60	GNMCF90F	3862	4310
60	GNMCF90R	2510	3187
60	GNMCH28F	9435	9696
60	GNMCK30F	13554	14101
60	GNMCK30R	12158	12740
60	GNMCM05F	9295	9874
60	GNMCM05R	10879	11616
60	GNMCM55F	10074	10731
60	GNMCM55R	10796	11542
60	GNMCS87F	13103	13751
60	GNMCW39F	15206	15851
60	GNMCX55F	12701	12889
60	GNMCX55R	13822	14516
60	GNMCX62R	1554	2237
61	GNMBA06F	22890	23457

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
61	GNMBA06R	24229	24758
61	GNMCB04F	30158	30722
61	GNMCB04R	28612	29214
61	GNMCB21F	23862	24428
61	GNMCB21R	25186	25803
61	GNMCB63R	3783	4084
61	GNMCB86F	23284	23998
61	GNMCB86R	24021	24623
61	GNMCD18F	31187	31608
61	GNMCF95F	20692	21018
61	GNMCF95R	19232	19872
61	GNMCK40F	11307	11811
61	GNMCK65F	9007	9517
61	GNMCL04F	20077	20543
61	GNMCL04R	18687	19271
61	GNMCL20F	27988	28464
61	GNMCL20R	29257	29840
61	GNMCL22F	13417	13939
61	GNMCL22R	14872	15438
61	GNMCL29R	34192	34771
61	GNMCL53F	1518	2034
61	GNMCL53R	214	698
61	GNMCL90R	8315	8898
61	GNMCM65F	15441	16117
61	GNMCM65R	14289	14984
61	GNMCM71F	10516	11122
61	GNMCM71R	11703	12405
61	GNMCO61F	14512	15200
61	GNMCO61R	13255	13946
61	GNMCQ79F	15902	16644
61	GNMCQ79R	16726	17426
61	GNMCQ90F	2342	3073
61	GNMCQ90R	804	1426
61	GNMCQ95F	19198	19483
61	GNMCQ95R	20653	21277
61	GNMCS24F	19718	20379
61	GNMCS46F	18786	19366
61	GNMCV12F	30913	31415
61	GNMCV13R	31908	32632
61	GNMCY25F	25038	25729
61	GNMCY25R	26701	27270
62	GNMBA12F	7833	8334
62	GNMBA66F	8661	9232
62	GNMBA66R	9608	10138
62	GNMBB30F	3235	3799
62	GNMBB30R	4483	5016

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
62	GNMCB05F	4772	5096
62	GNMCB05R	6111	6717
62	GNMCD67F	7723	8233
62	GNMCF78F	3478	3931
62	GNMCM43F	12550	13285
62	GNMCM43R	11540	12127
62	GNMCP28F	3321	3756
62	GNMCP28R	1814	2235
62	GNMCP67F	2320	2824
62	GNMCP67R	3943	4497
62	GNMCV62F	8092	8582
62	GNMCV62R	9694	10487
62	GNMCX39F	7125	7796
62	GNMCX39R	5729	6265
62	GNMCZ55F	5209	5724
62	GNMCZ55R	3782	4320
62	GNMCZ76F	4455	4947
62	GNMCZ76R	3027	3553
63	GNMBA13F	14825	15391
63	GNMBA13R	13165	13703
63	GNMBA14F	12491	13059
63	GNMBA14R	13757	14281
63	GNMBA80F	12477	12855
63	GNMCB32F	472	756
63	GNMCD42F	20565	21089
63	GNMCF07F	13708	14215
63	GNMCF07R	12522	13201
63	GNMCK47F	10432	10931
63	GNMCK47R	9275	9813
63	GNMCK91R	9054	9617
63	GNMCN32F	16696	17346
63	GNMCN32R	17927	18521
63	GNMCS55F	1461	2208
63	GNMCX85R	14727	15427
63	GNMCZ11R	17115	17610
63	GNMCZ18F	1990	2479
63	GNMCZ18R	3109	3667
63	GNMCZ34F	13696	14216
63	GNMCZ34R	12451	13003
64	GNMBA27F	2420	2987
64	GNMBA27R	649	1182
64	GNMCK68F	8858	9142
64	GNMCN47F	8600	9323
64	GNMCQ47F	5300	5761
64	GNMCQ47R	3904	4632
64	GNMCZ45F	6005	6471

Coordinates of Sequences Released In Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
64	GNMCZ45R	7509	8073
64	GNMCZ89F	6722	7164
65	GNMBA40F	9258	9800
65	GNMBA40R	7884	8418
65	GNMCK42F	8125	8438
65	GNMCK42R	9148	9679
65	GNMCK43F	14839	15398
65	GNMCK43R	13198	13745
65	GNMCM11R	2515	3190
65	GNMCO03F	4053	4557
65	GNMCO03R	5332	6085
65	GNMCO32F	10209	10877
65	GNMCO32R	11348	11993
65	GNMCO78R	1107	1782
65	GNMCQ10F	9012	9752
65	GNMCQ10R	10149	10831
65	GNMCQ36F	19	522
65	GNMCZ17F	1839	2369
65	GNMCZ17R	3149	3711
65	GNMCZ24R	3485	4030
65	GNMCZ50R	2017	2358
65	GNMCZ51F	3694	4187
65	GNMCZ51R	5216	5657
66	GNMBA45F	5980	6527
66	GNMBA45R	4417	4948
66	GNMBB01F	3558	4094
66	GNMBB01R	2080	2598
66	GNMCA23F	4257	4873
66	GNMCN50F	6431	7098
66	GNMCN50R	5020	5625
66	GNMCO46F	1788	2443
66	GNMCO46R	703	1195
66	GNMCQ15F	1788	2503
66	GNMCQ15R	994	1686
66	GNMCZ67F	1099	1592
66	GNMCZ67R	2554	3093
66	GNMCZ68F	1130	1584
67	GNMBA56R	828	1363
67	GNMCZ01F	1176	1497
67	GNMCZ01R	2672	3147
68	GNMBA58F	11648	12214
68	GNMBA58R	10145	10680
68	GNMBB14F	7190	7758
68	GNMBB14R	8579	9037
68	GNMCD71F	502	959
68	GNMCL54F	10328	10882

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
68	GNMCL54R	11852	12293
68	GNMCN39F	13282	13967
68	GNMCN39R	11911	12477
68	GNMCP34F	12249	12751
68	GNMCP34R	10521	11087
68	GNMCP74F	9533	10032
68	GNMCP74R	8395	8982
68	GNMCV35F	11085	11475
68	GNMCV35R	12496	12972
69	GNMBA67F	10755	11332
69	GNMBA67R	9691	10167
69	GNMCA68F	138	798
69	GNMCA95F	7720	8389
69	GNMCB19F	7635	8181
69	GNMCB62F	496[illegible]	5465
69	GNMCB62R	6482	7170
69	GNMCD88F	6048	6546
69	GNMCD94F	10463	10960
69	GNMCD94R	12298	12546
70	GNMBA87F	8256	8675
70	GNMBA87R	6890	7365
70	GNMCA76F	9130	9792
70	GNMCB96F	10306	11006
70	GNMCB96R	11786	12359
70	GNMCD20F	2427	2973
70	GNMCD20R	3980	4417
70	GNMCE77F	10510	10866
70	GNMCF49F	13718	14204
70	GNMCF49R	11782	12414
70	GNMCF57F	24615	25081
70	GNMCF57R	23522	24203
70	GNMCF81R	14890	15469
70	GNMCK10F	32790	33342
70	GNMCL64F	2279	2735
70	GNMCL64R	1098	1594
70	GNMCM94F	15929	16589
70	GNMCM94R	16990	17708
70	GNMCO70F	6253	6962
70	GNMCP46F	28269	28572
70	GNMCP46R	29399	29799
70	GNMCP69R	14839	15383
70	GNMCQ60R	4262	4932
70	GNMCV71F	1570	2085
70	GNMCV71R	316	1151
70	GNMCV72F	29887	30336
70	GNMCV72R	28290	29022

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
70	GNMCV79F	9283	9798
70	GNMCV79R	8344	9079
70	GNMCV90F	15009	15476
70	GNMCV90R	16482	17289
70	GNMCX43F	15135	15898
70	GNMCX43R	14040	14726
70	GNMCY28F	27547	28277
70	GNMCY28R	26646	27207
70	GNMCZ35F	32742	33250
71	GNMBB05F	1960	2525
71	GNMBB05R	3344	3515
71	GNMCQ43F	7860	8357
71	GNMCQ43R	8617	9224
71	GNMCV39F	3444	3908
71	GNMCV39R	1987	2637
71	GNMCV40R	1959	2698
71	GNMCX05F	7245	7867
71	GNMCX05R	9020	9558
71	GNMCY02F	11233	11831
71	GNMCY02R	10519	11074
71	GNMCZ22F	12189	12719
71	GNMCZ22R	10978	11535
71	GNMCZ62F	5934	6428
71	GNMCZ62R	7330	7740
72	GNMBB26F	8760	9327
72	GNMBB26R	7558	8089
72	GNMCA20F	13469	14085
72	GNMCA70F	3932	4598
72	GNMCA83F	16236	16703
72	GNMCD73F	16569	17077
72	GNMCD73R	15204	15432
72	GNMCF25F	16016	16451
72	GNMCF25R	14647	15269
72	GNMCM14R	10622	11346
72	GNMCS42F	5703	6424
72	GNMCS67F	9325	10026
72	GNMCS91F	3912	4620
72	GNMCY86F	1473	2157
73	GNMCA21F	82	736
73	GNMCA82F	3679	3975
73	GNMCL92F	4684	5205
73	GNMCL92R	5485	5880
73	GNMCM22R	708	1428
73	GNMCM29R	1947	2683
73	GNMCO16R	1657	2311
73	GNMCV93F	347	830

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
73	GNMCV93R	1879	2561
74	GNMCA78F	5557	6224
74	GNMCB76F	5584	6225
74	GNMCB76R	4398	4946
74	GNMCF14R	1573	2079
74	GNMCF30F	9638	10051
74	GNMCF30R	8180	8703
74	GNMCL96F	16170	16676
74	GNMCL96R	14728	15294
74	GNMCN51F	7918	8654
74	GNMCN51R	6999	7601
74	GNMCN65F	14177	14895
74	GNMCN65R	12918	13517
74	GNMCN66R	12940	13557
74	GNMCO71F	2786	3525
74	GNMCO71R	3980	4683
74	GNMCP02F	9531	10254
74	GNMCP02R	10574	11268
74	GNMCQ12F	1447	2032
74	GNMCQ12R	416	1065
74	GNMCV61F	12114	12501
74	GNMCV61R	10643	11335
74	GNMCX30F	18292	19013
74	GNMCX30R	20178	20810
74	GNMCX94F	21616	22251
74	GNMCX94R	20632	21246
74	GNMCY73R	13205	13774
74	GNMCZ16F	14762	15283
74	GNMCZ16R	13378	13933
74	GNMCZ19F	23465	23941
75	GNMCA94F	3978	4349
75	GNMCB55F	2185	2819
75	GNMCB55R	3259	3917
75	GNMCL13F	4716	5241
75	GNMCL13R	2852	3443
75	GNMCL80F	4341	4845
75	GNMCL80R	2903	3473
75	GNMCM78R	2146	2889
75	GNMCV07F	1	479
75	GNMCV08R	1221	1918
75	GNMCV10F	5011	5503
75	GNMCV11R	3483	4212
75	GNMCV36F	4495	4971
75	GNMCV36R	3285	3527
75	GNMCV52F	3868	4351
75	GNMCV52R	2491	3098

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
75	GNMCX78F	3135	3788
75	GNMCX78R	4397	5087
76	GNMCB02F	2416	2977
76	GNMCB02R	3352	3988
76	GNMCB07F	2416	2984
76	GNMCB07R	3352	3954
76	GNMCB12F	2416	2974
76	GNMCB12R	3314	3983
76	GNMCY54R	5129	5688
77	GNMCB54R	4435	4640
77	GNMCB85R	2747	3439
77	GNMCF72F	4480	4924
77	GNMCF72R	5936	6649
77	GNMCK68R	568	1128
77	GNMCM47F	3316	3922
77	GNMCM47R	4346	4995
77	GNMCX10F	6886	7627
77	GNMCX10R	5801	6436
77	GNMCZ08R	3508	3954
78	GNMCB60F	1387	2047
78	GNMCB60R	2757	3429
79	GNMCB65F	287	954
79	GNMCB65R	1598	2122
79	GNMCY11F	3301	4016
79	GNMCY11R	2339	2911
81	GNMCD15F	1	519
82	GNMCO75R	2040	2712
83	GNMCD53F	466	1013
84	GNMCF02F	1636	2132
85	GNMCF15F	3019	3523
85	GNMCF15R	1257	1932
85	GNMCY26F	1834	2612
85	GNMCY26R	555	1120
86	GNMCF34F	1880	2365
86	GNMCF34R	259	918
86	GNMCS21F	1678	2392
87	GNMCF36F	274	748
88	GNMCF71R	10636	11160
88	GNMCL78F	2657	3153
88	GNMCL78R	4108	4665
88	GNMCN10F	7355	8034
88	GNMCQ46F	10928	11579
88	GNMCQ46R	9882	10586
88	GNMCQ88F	574	1196
88	GNMCQ88R	2017	2549
89	GNMCF76F	1981	2406

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
89	GNMCF76R	1	500
89	GNMCF80F	920	1305
89	GNMCF80R	2032	2709
89	GNMCL16F	247	763
89	GNMCL16R	1226	1784
89	GNMCN80F	788	1493
89	GNMCQ82F	1969	2554
89	GNMCQ82R	401	1093
89	GNMCZ19R	2292	2850
123	GNMCH27F	119	501
145	GNMCP17R	991	1517
152	GNMCP17F	81	776
153	GNMCK10R	756	1346
153	GNMCS01F	823	1344
153	GNMCX08F	332	1001
153	GNMCX08R	1513	2144
153	GNMCZ35R	695	1204
154	GNMCK14R	1	352
155	GNMCK59R	1	445
156	GNMCK78F	8693	9133
156	GNMCM20F	2049	2694
156	GNMCM20R	632	1335
156	GNMCS15F	3468	4033
156	GNMCS66F	4788	5488
156	GNMCV01F	1890	2231
156	GNMCV02R	166	894
156	GNMCV68F	2538	3032
156	GNMCV68R	3475	4231
157	GNMCL11F	295	834
157	GNMCL11R	1294	1846
158	GNMCL30F	1756	2276
158	GNMCL30R	448	1028
158	GNMCV49R	4317	5164
159	GNMCL48F	5961	6264
159	GNMCL48R	4706	5280
159	GNMCQ61R	922	1535
159	GNMCS71F	314	1024
159	GNMCY32F	8722	9407
159	GNMCY32R	10063	10584
159	GNMCY51F	8917	9628
159	GNMCY51R	10406	10895
160	GNMCL58R	4560	5111
160	GNMCN05R	9955	10528
160	GNMCO37F	8602	9262
160	GNMCV04F	951	1370
160	GNMCV05R	1971	2742

Coordinates of Sequences Released in Contigs			
Contig No.	Sequence Name	Coordinate	Coordinate
161	GNMCN26F	4880	5549
161	GNMCN26R	3911	4533
161	GNMCQ77F	6238	6857
161	GNMCQ77R	5035	5760
161	GNMCZ58F	3859	4357
161	GNMCZ58R	2375	2916
162	GNMCN45F	1676	2346
162	GNMCN45R	400	977
163	GNMCN92F	507	1223
163	GNMCN92R	1454	2112
163	GNMCY42F	1142	1860
163	GNMCY42R	2736	3290
163	GNMCZ36F	4711	5225
163	GNMCZ36R	6070	6592
164	GNMCN94F	3000	3708
164	GNMCN94R	1705	2265
165	GNMCQ54F	51	677
165	GNMCQ54R	938	1639
166	GNMCS72F	19	432
166	GNMCS74R	1	181
167	GNMCV58F	314	808
167	GNMCZ38F	6858	7329
167	GNMCZ38R	5443	5996
168	GNMCX26F	1	660
169	GNMCX92F	341	587
170	GNMCY65R	195	567

APPENDIX B

MenB ORFs

Number 1 ORF

```
  1  ..TTCGGCGA CATCGGCGGT TTGAAGGTCA ATGCCCCCGT CAAATCCGCA
 51    GGCGTATTGG TCGGGCGCGT CGGCGCTATC GGACTTGACC CGAAATCCTA
101    TCAGGCGAGG GTGCGCCTCG ATTTGGACGG CAAGTATCAG TTCAGCAGCG
151    ACGTTTCCGC GCAAATCCTG ACTTCsGGAC TTTTGGGCGA GCAGTACATC
201    GGGCTGCAGC AGGGCGGCGA CACGGAAAAC CTTGCTGCCG GCGACACCAT
251    CTCCGTAACC AGTTCTGCAA TGGTTCTGGA AAACCTTATC GGCAAATTCA
301    TGACGAGTTT TGCCGAGAAA AATGCCGACG GCGGCAATGC GGAAAAAGCC
351    GCCGAATAA
```

Number 2 ORF

```
  1  ..ATTTTGATAT ACCTCATCCG CAAGAATCTA GGTTCGCCCG TCTTCTTCTT
 51    TCAGGAACGC CCCGGAAAGG ACGGAAAACC TTTTAAAATG GTCAAATTCC
101    GTTCCATGCG CGACGGCTTG TATTCAGACG GCATTCCGCT GCCCGACGGA
151    GAACGCCTGA CACCGTTCGG CAAAAAACTG CGTGCCGcCA GTwTGGACGA
201    ACTGCCTGAA TTATGGAATA TCTTAAAAGG CGAGATGAGC CTGGTCGGCC
251    CCCGCCCGCT GCTGATGCAA TATCTGCCGC TGTACGACAA CTTCCAAAAC
301    CGCCGCCACG AAATGAAACC CGGCATTACC GGCTGGGCGC AGGTCAACGG
351    GCGCAACGCg CTTTCGTGGG ACGAAAAATT CGCCTGCGAT GTTTGGTATA
401    TCGACCACTT CAGCCTGTGC CTCGACATCA AAATCCTACT GCTGACGGTT
451    AAAAAAGTAT TAATCAAGGA AGGGATTTCC GCACAGGGCG AACA.aCCAT
501    GCCCCCTTTC ACAGGAAAAC GCAAACTCGC CGTCGTCGGT GCGGGCGGAC
551    ACGGAAAAGT CGTTGCCGAC CTTGCCGCCG CACTCGGCCG GTACAGGGAA
601    ATCGTTTTTC TGGACGACCG CGCACAAGGC AGCGTCAACG GCTTTTCCGT
651    CATCGGCACG ACGCTGCTGC TTGAAAACAG TTTATCGCCC GAACAATACG
701    ACGTCGCCGT CGCCGTCGGC AACAACCGCA TCCGCCGCCA AATCGCCGAA
751    AAAGCCGCCG CGCTCGGCTT CGCCCTGCCC GTACTGGTTC ATCCGGACGC
801    GACCGTCTCG CCTTCTGCAA CAGTCGGACA AGGCAGCGTC GTTATGGCGA
851    AAGCGGTCG..
```

Number 3 ORF

```
  1  ..AACCATATGG CGATTGTCAT CGACGAATAC GGCGGCACAT CCGGCTTGGT
 51    CACCTTTGAA GACATCATCG AGCAAATCGT CGGCGAAATC GAAGACGAGT
101    TTGACGAAGA CGATAGCGCC GACAATATCC ATGCCGTTTC TTCAGACACG
151    TGGCGCATCC ATGCAGCTAC CGAAATCGAA GACATCAACA CCTTCTTCGG
201    CACGGAATAC AGCATCGAAG AAGCCGACAC CATT.GGCGG CCTGGTCATT
251    CAAGAGTTGG GACATCTGCC CGTGCGCGGC GAAAAAGTCC TTATCGGCGG
301    TTTGCAGTTC ACCGTCGCAC GCGCCGACAA CCGCCGCCTG CATACGCTGA
351    TGGCGACCCG CGTGAAGTAA GC........ .....ACCGC CGTTTCTGCA
401    CAGTTTAG
```

Number 4 ORF

```
  1    ATGCGCGGCG GCAGGCCGGA TTCCGTTACC GTGCAGATTA TCGAAGGTTC
 51    GCGTTTTTCG CATATGAGGA AAGTCATCGA CGCAACGCCC GACATCGGAC
101    ACGACACCAA AGGCTGGAGC AATGAAAAAC TGATGGCGGA AGTTGCGCCC
151    GATGCCTTCA GCGGCAATCC TGAAgGGCAG TTTTTCCCCG ACAGCTACGA
201    AATCGATGCG GGCGGCAGTG ATTTGCAGAT TTACCAAACC GCCTACAAgG
251    GCGATGCAAC GCCGCCTGAA TGAgGGCATG GGAAAGCAGG CAGGACGGGC
301    TGCCTTATAA AAACCCTTAT GAAATGCTGA TTATGGCGAr CCTGGTCGAA
351    AAGGAAACAG GGCATGAAGC CGAsCsCGAC CATGTcGCTT CCGTCTTCGT
401    CAACCGCCTG AAAATCGGTA TGCGCCTGCA AACCgAssCG TCCGTGATTT
```

451 ACGGCATGGG TGCGGCATAC AAGGGCAAAA TCCGTAAAGC CGACCTGCGC
501 CGCGACACGC CGTACAACAC CTACACGCGC GGCGGTCTGC CGCCAACCCC
551 GATTGCGCTG CCC..

Number 5 ORF

1 CGTTTCAAAA TGTTAACTGT GTTGACGGCA ACCTTGATTG CCGGACAGGT
51 ATCTGCCGCC GGAGGCGGTG CGGGGGATAT GAAACAGCCG AAGGAAGTCG
101 GAAAGGTTTT CAGAAAGCAG CAGCGTTACA GCGAGGAAGA AATCAAAAAC
151 GAACGCGCAC GGCTTGCGGC AGTGGGCGAG CGGGTTAATC AGATATTTAC
201 GTTGCTGGGA GGGGAAACCG CCTTGCAAAA GGGGCAGGCG GGAACGGCTC
251 TGGCAACCTA TATGCTGATG TTGGAACGCA CAAAATCCCC CGAAGTCGCC
301 GAACGCGCCT TGGAAATGGC CGTGTCGCTG AACGCGTTTG AACAGGCGGA
351 AATGATTTAT CAGAAATGGC GGCAGATTGA GCCTATACCG GGTAAGGCGC
401 AAAAACGGGC GGGGTGGCTG CGGAACGTGC TGAGGGAAAG AGGAAATCAG
451 CATCTGGACG GACGGGAAGA AGTGCTGGCT CAGGCGGACG AAGGACAG

Number 6 ORF

1 AACCTCTACG CCGGCCCGCA GACCACATCC GTCATCGCAA ACATCGCCGA
51 CAACCTGCAA CTGGCCAAAG ACTACGGCAA AGTACACTGG TTCGCCTCCC
101 CGCTCTTCTG GCTCCTGAAC CAACTGCACA ACATCATCGG CAACTGGGGC
151 TGGGCGATTA TCGTTTTAAC CATCATCGTC AAAGCCGTAC TGTATCCATT
201 GACCAACGCC TCTTACCGCT CTATGGCGAA AATGCGTGCC GCCGCACCCA
251 AACTGCAAGC CATCAAAGAG AAATACGGCG ACGACCGTAT GGCGCAACAA
301 CAGGCGATGA TGCAGCTTTA CACAGACGAG AAAATCAACC CGaCTGGGCG
351 GCTGCCTGCC TATGCTGTTG CAAATCCCCG TCTTCATCGG ATTGTATTGG
401 GCATTGTTCG CCTCCGTAGA ATTGCGCCAG GCACCTTGGC TGGGTTGGAT
451 TACCGACCTC AGCCGCGCCG ACCCCTACTA CATCCTGCCC ATCATTATGG
501 CGGCAACGAT GTTCGCCCAA ACTTATCTGA ACCCGCCGCC GAcCGACCCG
551 ATGCAgGCGA AAATGATGAA AATCATGCCG TTGGTTTTCT CsGwCrTGTT
601 CTTCTTCTTC CCTGCCGGks TGGTATTGTA CTGGGTAGTC AACAACCTCC
651 TGACCATCGC CCAGCAATGG CACATCAACC GCAGCATCGA AAAACAACGC
701 GCCCAAGGCG AAGTCGTTTC CTAA

Number 7 ORF

1 ..GCCGTCTTAA TCATCGAATT ATTGACGGGA ACGGTTTATC TTTTGGTTGT
51 NAGCGCGGCT TTGGCGGGTT CGGGCATTGC TTACGGGCTG ACCGGCAGTA
101 CGCCTGCCGC CGTCTTGACC GNCGCTCTGC TTTCCGCGCT GGGTATTTNG
151 TTCGTACACG CCAAAACCGC CGTTAGAAAA GTTGAAACGG ATTCATATCA
201 GGATTTGGAT GCCGGACAAT ATGTCGAAAT CCTCCGNCAC ACAGGCGGCA
251 ACCGTTACGA AGTT.TTTAT CGCGGTACG. ACTGGCAGGC TCAAAATACG
301 GGGCAAGAAG AGCTTGAACC AGGAACTCGC GCCCTCATTG TCCGCAAGGA
351 AGGCAACCTT CTTATTATCA CACACCCTTA A

Number 8 ORF

1 ATGTwTGATT TCGGTTTrGG CGArCTGGTT TTTGTCGGCA TTATCGCCCT
51 GATwGtCCTC GGCCCCGAAC GCsTGCCCGA GGCCGCCCGC AyCGCCGGAC
101 GGcTCATCGG CAGGCTGCAA CGCTTTGTCG GcAGCGTCAA ACAGGAATTT
151 GACACTCAAA TCGAACTGGA AGAACTGAGG AAGGCAAAGC AGGAATTTGA
201 AGCTGCCGcC GCTCAGGTTC GAGACAGCCT CAAAGAAACC GGTACGGATA
251 TGGAAGGCAA TCTGCACGAC ATTTCCGACG GTCTGAAGCC TTGGGAAAAA
301 CTGCCCGAAC AGCGGACACC TGCCGATTTC GGTGTCGATG AAAACGGCAA
351 TCCGCT.TCC CGATGCGGCA AACACCCTAT CAGACGGCAT TTCCGACGTT
401 ATGCCGTC..

Number 9 ORF

```
  1  ATGCAAGCAC GGCTGCTGAT ACCTATTCTT TTTTCAGTTT TTATTTTATC
 51  CGC.TGCGGG ACACTGACAG GTATTCCATC GCATGGCGgA GkTAAACgCT
101  TTgCGGTCGA ACAAGAACTT GTGGCCGCTT CTGCCAGAGC TGCCGTTAAA
151  GACATGGATT TACAGGCATT ACACGGACGA AAAGTTGCAT TGTACATTGC
201  CACTATGGGC GACCAAGGTT CAGGcAGTTT GACAGGGGGG TCGCTACTCC
251  ATTGATGCAC kGrTwCsTGG CGAATACATA AACAGCCCTG CCGTCCGTAC
301  CGATTACACC TATCCACGTT ACGAAACCAC CGCTGAAACA ACATCAGGCG
351  GTTTGACAGG TTTAACCACT TCTTTATCTA CACTTAATGC CCCTGCACTC
401  TCTCGCACCC AATCAGACGG TAGCGGAAGT AAAAGCAGTC TGGGCTTAAA
451  TATTGGCGGG ATGGGGGATT ATCGAAATGA AACCTTGACG ACTAACCCGC
501  GCGACACTGC CTTTCTTTCC CACTTGGTAC AGACCGTATT TTTCCTGCGC
551  GGCATAGACG TTGTTTCTCC TGCCAATGCC GATACAGATG TGTTTATTAA
601  CATCGACGTA TTCGGAACGA TACGCAACAG AACCGAAATG..
```

Number 10 ORF

```
  1  ..GG.CAGCACA AAAAACAGGC GGTTGAACGG AAAAACCGTA TTTACGATGA
 51    TGCCGGGTAT GATATTCGGC GTATTCACGG GCGCATTCTC CGCAAAATAT
101    ATCCCCGCGT TCGGGCTTCA AATTTTCTTC ATCCTGTTTT TAACCGCCGT
151    CGCATTCAAA ACACTGCATA CCGACCCTCA GACGGCATCC CGCCCGCTGC
201    CCGGACTGCC CrGACTGACT GCGGTTTCCA CACTGTTCGG CACAATGTCG
251    AGCTGGGTCG GCATAGGCGG CGGTTCACTT TCCGTCCCCT TCTTAATCCA
301    CTGCGGCTTC CCCGCCCATA AAGCCATCGG CACATCATCC GGCCTTGCCT
351    GGCCGATTGC ACTCTCCGGC GCAATATCGT ATCTGCTCAA CGGCCTGAAT
401    ATTGCAGGAT TGCCCGAAGG GTCACTGGGC TTCCTTTACC TGCCCGCCGT
451    CGCCGTCCTC AGCGCGGCAA CCATTGCCTT TGCCCCGCTC GGTGTCAAAA
501    CCGCCCACAA ACTTTCTTCT GCCAAACTCA AAAAATC.TT CGGCATTATG
551    TTGCTTTTGA TTGCCGGAAA AATGCTGTAC AACCTGCTTT AA
```

Number 11 ORF

```
  1  ..GGAAACGGAT GGCAGGCAGA CCCCGAACAT CCGCTGCTCG GGCTTTTTGC
 51    CGTCAGTAAT GTATCGATGA CGCTTGCTTT TGTCGGAATA TGTGCGTTGG
101    TGCATTATTG CTTTTCGGGA ACGGTTCAAG TGTTTGTGTT TGCGGCACTG
151    CTCAAACTTT ATGCGCTGAA GCCGGTTTAT TGGTTCGTGT TGCAGTTTGT
201    GCTGATGGCG GTTGCCTATG TCCACCGCTG CGGTATAGAC CGGCAGCCGC
251    CGTCAACGTT CGGCGGCTCG CAGCTGCGAC TCGGCGGGTT GACGGCAGCG
301    TTGATGCAGG TCTCGGTACT GGTGCTGCTG CTTTCAGAAA TTGGAAGATA
351    A
```

Number 12 ORF

```
  1  ATGAAAACCC CACTCCTCAA GCCTCTGCTN ATTACCTCGC TTCCCGTTTT
 51  CGCCAGTGTT TTTACCGCCG CCTCCATCGT CTGGCAGCTA GGCGAACCCA
101  AGCTCGCCAT GCCCTTCGTA CTCGGCATCA TCGCCGGCGG CCTTGTCGAT
151  TTGGACAACC NCNTGACCGG ACGGCTNAAA AACATCATCA CCACCGTCGC
201  CCTGTTCACC CTCTCCTCGC TCACGGCACA AAGCACCCTC GGCACAGGGC
251  TGCCCTTCAT CCTCGCCATG ACCCTGATGA CTT.CG.CTT CACCATTTTA
301  GGCGCGGNCG ...
```

Number 13 ORF

```
  1  ATGAATATGC TGGGAGCTTT GGCAAAAGTC GGCAGCCTGA CGATGGTGTC
 51  GCGCGTTTTG GGATTTGTGC GCGATACGGT CATTGCGCGG GCATTCGGCG
101  CGGGTATGGC GACGGATGCG TTTTTTGTCG CGTTCAAACT GCCCAACCTG
151  CTTCGCCGCG TGTTTGCGGA GGGGGCGTTT GCCCAAGCGT TTGTGCCGAT
201  TTTGGCGGAA TACAAGGAAA CGCGTTCAAA AGAGGCGG.C GAAGCCTTTA
251  TCCGCCATGT GGCGGGGATG CTGTCGTTTG TACTGGTTAT CGTTACCGCG
301  CTGGGCATAC TTGCCGCGCC TTGGGTGATT TATGTTTCCG CACCCGAGTT
```

```
 351  TTGCCCAAGA TGCCGACAAA TTTCAGCTCT CCATCGATTT GCTGCGGATT
 401  ACGTTTCCTT ATATATTATT GATTTCCCTG TCTTCATTTG TCGGCTCGGT
 451  ACTCAATTCT TATCATAAGT TCGGCATTCC GGCGTTTACG CCAC.GTTTC
 501  TGAACGTGTC GTTTATCGTA TTCGCGCTGT TTTTCGTGCC GTATTTCGAT
 551  CCGCCCGTTA CCGCGCyGGC GTGGGCGGTC TTTGTCGGCG GCATTTTGCA
 601  ACTCGrmTTC CAACTGCCCT GGCTGGCGAA ACTGGGCTTT TTGAAACTGC
 651  CCAAACtGAG TTTCAAAGAT GCGGCGGTCA ACCGCGTGAT GAAACAGATG
 701  GCGCCTGCgA TTTTgGGCGT GAgCGTGGCG CAGGTTTCTT TGGTGATCAA
 751  CACGATTTTc GCGTCTTATC TGCAATCGGG CAGCGTTTCA TGGATGTATT
 801  ACGCCGACCG CATGATGGAG CTGCCCAGCG GCGTGCTGGG GGCGGCACTC
 851  GGTACGATTT TGCTGCCGAC TTTGTCCAAA CACTCGGCAA ACCaAGATAC
 901  GGaACAGTTT TCCGCCCTGC TCGACTGGGG TTTGCGCCTG TGCATGCtgc
 951  TGACGCTGCC GGCGgcGGTC GGACTGGCGG TGTTGTCGTT cCCGcCtGGTG
1001  GCGACGCTGT TTATGTACCG CGwATTTACG CTGTTTGACG CGCAGATGAC
1051  GCAACACGCG CTGATTGCCT ATTCTTTCGG TTTAATCGGC TTAATCATGA
1101  TTAAAGTGTT GGCACCCGGC TTCTATGCGC GGCAAAACAT CAAwAmGCCC
1151  GTCAAAATCG CCATCTTCAC GCTCATCTGC mCGCAGTTGA TGAACCTTGs
1201  CTTTAyCGGC CCACTrrAAC rCagTCGGAC TTTCGCTTGC CATCGGTCTG
1251  GGCGCGTGTA TCAATGCCGG ATTGTTGTTT TACCTGTTGC GCAGACACGG
1301  TATTTACCAA CCTGG.CAAG GGTTGGGCAG CGTTCTT.AG CAAAAATGCT
1351  GcTCTCGCTC GCCGTGA
```

Number 14 ORF

```
   1  atGATTAAAA TCAAAAAAGG TCTAAACCTG CCCATCGCGG GCAGACCGGA
  51  GCAAGCCGTT tACGACGGCC CGGCCaTTAC CGAAGtCGCG TTGCTTGGCG
 101  AAGAATATGC CGGTATGCGC CCCTCGATGA AAGTCAAGGA AGGCGATGCC
 151  GTcAAAAAAG GCCAAGTGCT GTTTGAAGAC AAAAAGAATC CGGGCGTGGT
 201  GTTTACTGCG CCGGCTTCAG GcAAAATCGC CGCGATTCAC CGTGGCGAAA
 251  AGCGCGTACT TCAGTCAGTC GTGATTGCCG TTGAArGCAA CGACGAAATC
 301  GAGTTTGAAC GCTACGCACC TGAAGCGCTG GCAAACTTAA GCGGCGAAGA
 351  AGTGCGCCGC AACCTGATCC AATCCGGTTT GTGGACTGCG CTGCGCACCC
 401  GTCCGTTCAG CAAAATTCCT GCCGTCGATG CCGAGCCGTT CGCCATCTTC
 451  GTCAATGCGA tGGACACCAA TCCG..
```

Number 15 ORF

```
   1  ..GCGnCGnAAA TCATCCATCC CC..nACGTC GTAGGCCCTG AAGCCAACTG
  51    GTTTTTTATG GTAGCCAGTA CGTTTGTGAT TGCTTTGATT GGTTATTTTG
 101    TTACTGAAAA AATCGTCGAA CCGCAATTGG GCCCTTATCA ATCAGATTTG
 151    TCACAAGAAG AAAAAGACAT TCGGCATTCC AATGAAATCA CGCCTTTGGA
 201    ATATAAAGGA TTAATTTGGG CTGGCGTGGT GTTTGTTGCC TTATCCGCCC
 251    TATTGGCTTG GAGCATCGTC CCTGCCGACG GTATTTTGCG TCATCCTGAA
 301    ACAGGATTGG TTTCCGGTTC GCCGTTTTTA AAATCGATTG TTGTTTTTAT
 351    TTTCTTGTTG TTTGCACTGC CGGGCATTGT TTATGGCCGG GTAACCCGAA
 401    GTTTGCGCGG CGAACAGGAA GTCGTTAATG CGmyGGCCGA ATCGATGAGT
 451    ACTCTGGsGC TTTmTTTGsw CAkcATCTTT TTTGCCGCAC AGTTTGTCGC
 501    ATTTTTTAAT TGGACGAATA TTGGGCAATA TATTGCCGTT AAAGGGGCGA
 551    CGTTCTTAAA AGAAGTCGGC TTGGGCGGCA GCGTGTTGTT TATCGGTTTT
 601    ATTTTAATTT GTGCTTTTAT CAATCTGATG ATAGGCTCCG CCTCCGCGCA
 651    ATGGGCGGTA ACTGCGCCGA TTTTCGTCCC TATGCTGATG TTGGCCGGCT
 701    ACGCGCCCGA AGTCATTCAA GCCGCTTACC GCATCGGTGA TTCCGTTACC
 751    AATATTATTA CGCCGATGAT GAGTTATTTC GGGCTGATTA TGGCGACGGT
 801    GrkCmmmTAC AAAAAAGATG CGGGCGTGGG TaCGcTGATT wCTATGATGT
 851    TGCCGTATTC CGCTTTCTTC TTGATTGCgT GGATTGCCTT ATTCTGCATT
 901    TGGGTATTTg TTTTGGGCCT GCCCGTCGGT CCCGGCGCGC CCACATTCTA
 951    TCCCGCACCT TAA
```

Number 16 ORF

```
   1  ..ACAGCCGGCG CAGCAGGTTn CnCGGTCTTC GTTTTCGTAA CGGACAGTCA
  51    GGTGGAGGTG TTCGGGAACA TCCAGACCGC AGTGGAAACA GGTTTTTTTC
```

```
101  ATGGCATTTC GGTTTCGTCT GTGTTTGGTG CGGCGGCACA AGACTCGGCA
151  ATgGCTTCGC GCAGTGCGTC TATACCGGTA TTTTCAGCAA CGGAAATGCG
201  GACGGcGgCA ATTTTTCCCG CAGCGTCGCG CCATATGCCC GTGTTTTgTT
251  CTTCAGACGG CAGCAGGTCG GTTTTGTTGT ACACCTTgAT GCACGGAaTA
301  TCGCCGGCAT GGATTTCTTG CAGTACGTTT TCCACGTCTT CAATCTGCTG
351  TCCGCTGTTC GGAGCGGCGG CATCGACGAC GTGCAGCAGC ACATCgGcTT
401  gCGCGGTTTC TTCCAGCGTG GCgGAAAAGG CGGAAATCAG TTTgTGCGGC
451  agATyGCTnA CGAATCCGAC GGTATCGGTC AGGATAATGC TGCATTCGGG
501  ACT..
```

Number 17 ORF

```
  1  ..GGCCATTACT CCGACCGCAC TTGGAAGCCG CGTTTGGNCG GCCGCCGTCT
 51    GCCGTATCTG CTTTATGGCA CGCTGATTGC GGTTATTGTG ATGATTTTGA
101    TGCCGAACTC GGGCAGCTTC GGTTTCGGCT ATGCGTCGCT GGCGGCTTTG
151    TCGTTCGGCG CGCTGATGAT TGCGCTGTTA GACGTGTCGT CAAATATGGC
201    GATGCAGCCG TTTAAGATGA TGGTCGGCGA CATGGTCAAC GAGGAGCAGA
251    AAA.NTACGC CTACGGGATT CAAAGTTTCT TAGCAAATAC GGGCGCGGTC
301    GTGGCGGCGA TTCTGCCGTT TGTGTTTGCG TATATCGGTT TGGCGAACAC
351    CGCCGANAAA GGCGTTGTGC CGCAGACCGT GGTCGTGGCG TTTTATGTGG
401    GTGCGGCGTT GCTGGTGATT ACCAGCGCGT TCACGATTTT CAAAGTGAAG
451    GAATACGANC CGGAAACCTA CGCCCGTTAC CACGGCATCG ATGTCGCCGC
501    GAATCAGGAA AAAGCCAACT GGATCGCACT CTTAAAA.CC GCGC..
```

Number 18 ORF

```
  1  ATGTTGTTCC GTAAAACGAC CGCCGCCGTT TTGGCGCATA CCTTGATGCT
 51  GAACGGCTGT ACGTTGATGT TGTGGGGAAT GAACAACCCG GTCAGCGAAA
101  CAATCACCCG NAAACACGTT GNCAAAGACC AAATCCGNGN CTTCGGTGTG
151  GTTGCCGAAG ACAATGCCCA ATTGGAAAAG GGCAGCCTGG TGATGATGGG
201  CGGAAAATAC TGGTTCGTCG TCAATCCCGA AGATTCGGCG AA.NTGACGG
251  GNATTTTGAN GGCAGGGCTG GACAAACCCT TCCAAATAGT TNAGGATACC
301  CCGAGCTATG C.TGCCACCA AGCCCTGCCG GTCAAACTCG GATCGNCTGG
351  CAGCCAGAAT...
```

Number 19 ORF

```
  1  ..GTCAGTCCTG TACTGCCTAT TACACACGAA CGGACAGGGT TTGAAGGTGT
 51    TATCGGTTAT GAAACCCATT TTTCAGGGCA CGGACATGAA GTACACAGTC
101    CGTTCGATCA TCATGATTCA AAAAGCACTT CTGATTTCAG CGGCGGTGTA
151    GACGGCGGTT TTACTGTTTA CCAACTTCAT CGAACATGGT CGGAAATCCA
201    TCCGGAGGAT GAATATGACG GGCCGCAAGC AGCG.ATTAT CCGCCCCCCG
251    GAGGAGCAAG GGATATATAC AGCTATTATG TCAAAGGAAC TTCAACAAAA
301    ACAAAGACTA GTATTGTCCC TCAAGCCCCA TTTTCAGACC GTTGGCTAGA
351    AGAAAATGCC GGTGCCGCCT CTGGT..
```

Number 20 ORF

```
  1  ATGAAAAAAC AAATCACCGC AGCCGTAATG ATGCTGTCTA TGATTGCCCC
 51  CGCAATGGCA AACGGCTTGG ACAATCAGGC ATTTGAAGAC CAAATGTTCC
101  ACACGCGGGC AGATGCACCG ATGCAG...
```

Number 21 ORF

```
  1  ATGAATAAAA CTCTCTATCG TGTAATTTTC AACCGCAAAC GTGGGGCTGT
 51  GrTAGCCGTT GCTGAAACTA CCAAGCGCGA AGGTAAAAGC TGTGCCGATA
101  GTGATTCAGG CAGCGCTCAT GTGAAATCTG TTCCTTTTGG TACTACTCAT
151  GCACCTGTTT GTg.CGTTaC AAATATCTTT TCTTTTTCTT TATTGGGCTT
201  TTCTTTATGT TTGGCTGTAG GtacGGyCAA TATTGCTTTT GCTGATGGCA
```

```
251  TT..
```

Number 22 ORF

```
  1  ATGAATACTC CTCCTTTTGT CTGTTGGATT TTTTGCAAGG TCATCGACAA
 51  TTTCGGCGAC ATCGGCGTTT CGTGGCGGCT CGCCCGTGTT TTGCACCGCG
101  AACTCGGTTG GCAGGTGCAT TTGTGGACGG ACGATGTGTC CGCCTTGCGT
151  GCGCTTTGCC CTGATTTGCC CGATGTTCCC TGCGTTCATC AGGATATTCA
201  TGTCCGCACT TGGCATTCCG ATGCGGCAGA TATTGATACC GCG..
```

Number 23 ORF

```
  1  ..TTGTTCCTGC GTGTNAAAGT GGGGCGTTTT TTCAGCAGTC CGGCGACGTG
 51    GTTTCGGGNC AAAGACCCTG TAAATCAGGC GGTGTTGCGG CTGTATNCGG
101    ACGAGTGGCG GCA.ACTTCG GTACGTTGGA AAATAGNCGC AACGTCGCAC
151    AGCCTGTGGC TCTGCACGCT GCTCGGAATG CTGGTGTCGG TATTGTTGCT
201    GCTTTTGGTG CGGCAATATA CGTTCAACTG GGAAAGCACG CTGTTGAGCA
251    ATGCCGCTTC GGTACGCGCG GTGGAAATGT TGGCATGGCT GCCGTCGAAA
301    CTCGGTTTCC CTGTCCCCGA TGCGCGGTCG GTCATCGAAG GCCGTCTGAA
351    CGGCAATATT GCCGATGCGC GGCTTGGTCC GGGGCTGCTG GTCGNCAGTA
401    TCGCCTGCTA NGGCATCCTG CCGCGCCTG..
```

Number 24 ORF

```
  1  ..CAGAAGAGTT TGTCGAGAAT TTCTTTATGG GGTTTGGGCG GCGTGTTTTT
 51    CGGGGTGTCC GGTCTGGTAT GGTTTTCTTT GGGCGTTTCT TT.GAGTGCG
101    CCTGTTTTTC GGGTGTTTCT TTTCGGGGTT CGGGACGGGG GACGTTTGTG
151    GGCAGTACGG GGGTTTCTTT GAGTGTGTTT TCAGCTTGTG TTCC.GGCGT
201    CGTCCGGCTG CCTGTCGGTT TGAGCTGTGT CGGCAGGTTG CG..GTTTGA
251    CCCGGTTTTT CTTGGGTGCG GCAGGGGACG TCATTCTCCT GCCGCTTTCG
301    TCTGTGCCGT CCGGCTGTGC GGGTTCGGAT GAGGCGGCGT GGTGGTGTTC
351    GGGTTGGGCG GCATCTTGTT CCGACTACGC CGTTTGGCAG CCAGAATTCG
401    GTTTCGCGGG GGCTGTCGGT GTGTTGCGGT TCGGCTTGAA GGGTTTTGTC
451    GTCC..
```

Number 25 ORF

```
  1  ATGAAAACCT TCTTCAAAAC CCTTTCCGCC GCCGCACTCG CGCTCATCCT
 51  CGCCGCCTGC GGATT.CAAA AAGACAGCGC GCCCGCCGCA TCCGCTTCTG
101  CCGCCGCCGA CAACGGCGCG GCGTAAAAAA GAAATCGTCT TCGGCACGAC
151  CGTCGGCGAC TTCGGCGATA TGGTCAAAGA ACAAATCCAA GCCGAGCTGG
201  AGAAAAAAGG CTACACCGTC AAACTGGTCG AGTTTACCGA CTATGTACGC
251  CCGAATCTGG CATTGGCTGA GGGCGAGTTG
```

Number 26 ORF

```
  1  CCTCGTCGTC CTCGGCATGC TCCAGTTTCA AGGGGCGATT TACTCCAAGG
 51  CGGTGGAACG TATGCTCGGC ACGGTCATCG GGCTGGGCGC GGGTTTGGGC
101  GTTTTATGGC TGAACCAGCA TTATTTCCAC GGCAACCTCC TCTTCTACCT
151  CACCGTCGGC ACGGCAAGCG CACTGGCCGG CTGGGCGGCG GTCGGCAAAA
201  ACGGCTACGT CCCTmTGCTG GCAGGGCTGA CGATGTGTAT GCTCATCGGC
251  GACAACGGCA GCGAATGGCT CGACAGCGGA CTCATGCGCG CCATGAACGT
301  CCTCATCGGC GyGGCCATCG CCATCGCCGC CGCCAAACTG CTGCCGCTGA
351  AATCCACACT GATGTGGCGT TTCATGCTTG CCGACAACCT GGCCGACTGC
401  AGCAAAATGA TTGCCGAAAT CAGCAACGGC AGGCGCATGA CCCGCGAACG
451  CCTCGAGGAG AACATGGCGA AAATGCGCCA AATCAACGCA CGCATGGTCA
501  AAAGCCGCAG CCATCTCGCC GCCACATCGG GCGAAAGCTG CATCAGCCCC
551  GCCATGATGG AAGCCATGCA GCACGCCCAC CGTAAAATCG TCAACACCAC
601  CGAGCTGCTC CTGACCACCG CCGCCAAGCT GCAATCTCCC AAACTCAACG
```

```
651  GCAGCGAAAT CCGGCTGCTT GACCGCCACT TCACACTGCT CCAAAC....
701  .......................... GC AGACACGCCC GCCGCATCCG
751  CATCGACACC GCCATCAACC CCGAACTGGA AGCCCTCGCC GAACACCTCC
801  ACTACCAATG GCAGGGCTTC CTCTGGCTCA GCACCGATAT GCGTCAGGAA
851  ATTTCCGCCC TCGTCATCCT GCTGCAACGC ACCCGCCGCA AATGGCTGGA
901  TGCCCACGAA CGCCAACACC TGCGCCAAAG CCTGCTTGA
```

Number 27 ORF

```
   1  ..GAAATCAGCC TGCGGTCCGA CNACAGGCCG GTTTCCGTGN CGAAGCGGCG
  51    GGATTCGGAA CGTTTTCTGC TGTTGGACGG CGGCAACAGC CGGCTCAAGT
 101    GGGCGTGGGT GGAAAACGGC ACGTTCGCAA CCGTCGGTAG CGCGCCGTAC
 151    CGCGATTTGT CGCCTTTGGG CGCGGAGTGG GCGGAAAAGG CGGATGGAAA
 201    TGTCCGCATC GTCGGTTGCG CTGTGTGCGG AGAATTCAAA AAGGCACAAG
 251    TGCAGGAACA GCTCGCCCGA AAAATCGAGT GGCTGCCGTC TTCCGCACAG
 301    GCTTT.GGCA TACGCAACCA CTACCGCCAC CCCGAAGAAC ACGGTTCCGA
 351    CCGCTGGTTC AACGCCTTGG GCAGCCGCCG CTTCAGCCGC AACGCCTGCG
 401    TCGTCGTCAG TTGCGGCACG GCGGTAACGG TTGACGCGCT CACCGATGAC
 451    GGACATTATC TCGGAGA.GG AACCATCATG CCCGGTTTCC ACCTGATGAA
 501    AGAATCGCTC GCCGTCCGAA CCGCCAACCT CAACCGGCAC GCCGGTAAGC
 551    GTTATCCTTT CCCGACCGG..
```

Number 28 ORF

```
   1  ATGTTTTACC AAATCCTTGC CCTGATTATC TGGAGCAGCT CGTTTATTGC
  51  CGCCAAATAT GTCTATGGCG GCATCGATCC CGCATTGATG GTCGGCGTGC
 101  GCCTGCTAAT TGCCGCGCTG CCTGCACTGC CCGCCTGCCG CCGTCATGTC
 151  GGCAAGATTC CGCGTGAGGA ATGGAAGCCG TTGCTGATTG TGTCGTTCGT
 201  CAACTATGTG CTGACCCTGC TGCTTCAGTT TGTCGGGTTG AAATACACTT
 251  CCGCCGCCAG CGCATCGGTC ATTGTCGGAC TCGAGCCGCT GCTGATGGTG
 301  TTTGTCGGAC ACTTTTTCTT CAACGACAAA GCGCGTGCCT ACCACTGGAT
 351  ATGCGGCGCG GCGGCATTTG CCGGTGTCGC GCTGCTGATG GCGGGCGGTG
 401  CGGaAGAGGG CGGCGaAGTC GGCTGGTTCG GCTGCCTGCT GGTGTTGTTG
 451  GCGGGCGCGG GCTTTTGTGC CGCTATGCGT CCGACGCAAA GGCTGATTGC
 501  ACGCATCGGC GCACCGGCAT TCACATCTGT TTCCATTGCC GCCGCATCGT
 551  TGATGTGCCT GCCGTTTTCG CTTGCTTTGG CGCAAAGTTA TACCGTGGAC
 601  TGGAGCGTCG GGATGGTATT GTCGCTGCTG TATTTGGGTT TGGGGTGC..
```

Number 29 ORF

```
   1  ATGCGCCGTT TTCTACCGAT CGCAGCCATA TGCGCmGwms TCCTGkkGTA
  51  sGGACTGACG GCGGCAACCG GCAGCACCAG TTCGCTGGCG GATTATTTCT
 101  GGTGGATTGT TGCGTTCAGC GCAATGCTGC TGCTGGTGTT GTCCGCCGTT
 151  TTGGCACGTT ATGTCATATT GCTGTTGAAA GACAGGCGCG ACGGCGTATT
 201  CGGTTCGCtA srTyGCCAAA gsGCCTgkks TGGG.ATGTT TACGCTGGTT
 251  GCCGkACTGC CCGGCGTGTT TCTGTTCGGC TTTCCCGCAC AGTTCATCAA
 301  CGGCACGATT AATTCGTGGT TCGGCAACGA TACCCACGAG GCGCTTGAAC
 351  GCAGCCTCAA TTTGAGCAAG TCCGCATTGA ATTTGGCGGC AGACAACGCC
 401  CTCGGCAACG CCGTCCCCGT GCAGATAGAC CTCATCGGCG CGGCTTCCCT
 451  GCCCGGGGAT ATGGGCAGGG TGCTGGAACA TTACGCCGGC AGCGGTTTTG
 501  CCCAGCTTGC CCTGTACAAy ksCGCAAGCG GCAAAATCGA AAAAAGCATC
 551  AACCCGCACA AGCTCGATCA GCCGTTTCCA GGTAAGGCGC GTTGGGAaAa
 601  AATCCaACGG GCGGGTTCGG TCAGGGATTT GGAAAGCATA GGCGGCGTAT
 651  TGTaCGCGCA GGGCTGGCTG TCGGCGGGTA CGCACwACGG GCGCGATTAC
 701  GCCTTGTTTT TCCGTCAGCC GGTTCCCAAA GGCGTGGCAG AGGATGCCGT
 751  yTTAATCGAA AAGGCAAGGG CGAAATATGC TGAGTTGAGT TACAGCAAAA
 801  AAGGTTTGCA GACCTTTTTC CTGGCAACCC TGCTGATTGC CTCGCTGCTG
 851  TCGATTTTTC TTGCACTGGT CATGGCACTG TATTTCGCCC GCCGTTTCGT
 901  CGAACCCGTC CTATCGCTTG CCGAGGGGGC GAAGGCGGTG GCGCAAGGCG
 951  ATTTCAGCCA GACGCGCCCC GTGTTGCGCA ACGACGAGTT CGGACGCTTG
1001  ACCArGTTGT TCAACCACAT GACCGAGCAG CTTTCCATCG CCAAAGATGC
1051  AGACGAGCGC AACCGCCGGC GCGAGGAAGC CGCCAGGCAT TATCTTGAAT
```

```
1101  GCGTGTTGGA GGGGCTGACC ACGGGCGTGG TGGTGTTTGA CGAACAAGGC
1151  TGTCTGAAAA CCTTCAACAA AGCGGCGGGT ACC..
```

Number 30 ORF

```
   1  ATGTACGCAT TTACCGCCGC ACAGCAACAG AAGGCACTCT TCCGGCTGGT
  51  GCTTTTTCAT ATCCTCATCA TCGCCGCCAG CAACTATCTG GTGCAGTTCC
 101  CTTTCCAAAT TTTCGGCATC CACACCACTT GGGGCGCATT TTCCTTTCCC
 151  TTCATCTTCC TTGCCACCGA CCTGACCGTC CGCATTTTCG GTTCTCACTT
 201  GGCACGGCGG ATTATCTTTT GGGTGATGTT CCCCGCCCTT TTGCTTTCCT
 251  ACGTCTTTTC CGTTTTGTTC CACAACGGCA GTTGGACAGG CTTGGGCGCG
 301  CTGTCCGAAT TCAACACCTT TGTCGGACGC ATCGCCTTAG CCAGCTTTGC
 351  CGCCTACGCG ATCGGACAAA TCCTTGATAT TTTTGTATTC AACAAATTAC
 401  GCCGTCTGAA AGCGTGGTGG ATTGCACCGA ACGCATCAAC CGTCATCGGG
 451  CACGCGTTGG ATACG...
```

Number 31 ORF

```
   1  ATGGTCATAA AATATACAAA TTTGAATTTT GCGAAATTGT CGATAATTGC
  51  AATTTTGATG ATGTATTCGT TTGAAGCGAA TGCAAAyGCA GTmwrAATAT
 101  CTGAAACTGT TTCAGTTGAT ACCGGACAAG GTGCGAAAAT TCATAAGTTT
 151  GTACCTAAAA ATAGTAAAAC TTATTCATCT GATTTAATAA AAACGGTAGA
 201  TTTAACACAC AyyCCTACGG GCGCAAAAGC CCGAATCAAC GCCAAAATAA
 251  CCGCCAGCGT ATCCCGCGCC GGCGTATTGG CGGGGGTCGG CAAACTTGCC
 301  CGCTTAGgCG CGAAATTCAG CACAAGGGCG GTtCCCTATG TCGGAACAGC
 351  CcTTTTAGCC CACGACGTAT ACGAAAcTTT CAAAGAAGAC ATACAGGCAC
 401  GAGGCTACCA ATACGACCCC GAAACCGACA AATTTGTAAA AGGCTACGAA
 451  TATAGTAATT GCCTTTGGTA CGAAGACAAA AGACGTATTA ATAGAACCTA
 501  TGGCTGCTAC GGCGTTGAT..
```

Number 32 ORF

```
   1  ATGAGATTTT TCGGTATCGG TTTTTTGGTG CTGCTGTTTT TGGAGATTAT
  51  GTCGATTGTG TGGGTTGCCG ATTGGCTGGG CGGCGGCTGG ACGTTGTTTT
 101  TGATGGCGGC AGGTTTTGCC GCCGGCGTGC TGATGCTCAG GCAAACCGGG
 151  GCTGACCGGT CTTTTATTGG CGGGCGCGGC AATGAGAAGC GGCGGGAAGG
 201  TATCCGTTTA TCAGATGTTG TGGCCTATC..
```

Number 33 ORF

```
   1  ATGTTTGTTT TTCAGACGGC ATTCTT.ATG TTTCAGAAAC ATTTGCAGAA
  51  AGCCTCCGAC AGCGTCGTCG GAGGGACATT ATACGTGGTT GCCACGCCCA
 101  TCGGCAATTT GGCGGACATT ACCCTGCGCG CTTTGGCGGT ATTGCAAAAG
 151  GCG....... .....GCCGA AGACACGCGC GTTACCGCAC AGCTTTTGAG
 201  CGCGTACGGC ATTCAGGGCA AACTCGTCAG TGTGCGCGAA CACAACGAAC
 251  GGCAGATGGC GGACAAGATT GTCGGCTATC TTTCAGACGG CATGGTTGTG
 301  GCACAGGTTT CCGATGCGGG TACGCCGGCC GTGTGCGACC CGGGCGCGAA
 351  ACTCGCCCGC CGCGTGCGTG AGGCCGGGTT TAAAGTCGTT CCCGTCGTGG
 401  GCGCAAC.GC GGTGATGGCG GCTTTGAGCG TGGCCGGTGT GGAAGGATCC
 451  GATTTTTATT TCAACGGTTT TGTACCGCCG AAATCGGGAG AACGCAGGAA
 501  ACTGTTTGCC AAATGGGTGC GGGCGGCGTT TCCTATCGTC ATGTTTGAAA
 551  CGCCGCACCG CATCGGTGCA GCGCTTGCCG ATATGGCGGA ACTGTTCCCC
 601  GAACGCCGAT TAATGCTGGC GCGCGAAATT ACGAAAACGT TTGAAACGTT
 651  CTTAAGCGGC ACGGTTGGGG AAATTCAGAC GGCATTGTCT GCCGACGGCG
 701  ACCAATCGCG CGGCGAGATG GTGTTGGTGC TTTATCCGGC GCAGGATGAA
 751  AAACACGAAG GCTTGTCCGA GTCCGCGCAA AACATCATGA AAATCCTCAC
 801  AGCCGAGCTG CCGACCAAAC AGGCGGCGGA GCTTGCTGCC AAAATCACGG
 851  GCGAGGGAAA GAAAGCTTTG TACGAT..
```

Number 34 ORF

```
  1  ATGAAACAGA AAAAAACCGC TGCCGCAGTT ATTGCTGCAA TGTTGGCAGG
 51  TTTTGCGGCA GC.AAAGCAC CCGAAATCGA CCCGGCTTTG ..........
                              //
651  .......... ...GAGTTGG TCAGAAACCA GTTGGAGCAG GGTTTGAGAC
701  AGGAAAAAGC CCGCTTGAAA ATCGATGCCC TTTTGGAAGA AAACGGTGTC
751  AAACCGTAA
```

Number 35 ORF

```
   1  ATGAAAAAAT CTTTCCTTAC GCTTGTTCTG TATTCGTCTT TACTTACCGC
  51  CAGCGAAATT GCCTTACCCC TTGGAATTGG GGATTGAAAC CTTACCGGCG
 101  GCAAAAATTG CGGAAACGTT TGCGCTGACA TTTGTGATTG CTGCGCTGTA
 151  TCTGTTTGCG CGTAATAAGG TGACGCGTTT GTTGATTGCG GTGTTTTTTG
 201  CGTTCAGCAT TATTGCCAAC AATGTGCATT ACGCGGATTA TCAAAGCTGG
 251  ATGACG.... .......... .......... .......... ..........
                               //
1201  .......... CAAACCGTAT TCGAGCAGCT GCAAAAGACT CCTGACGGCA
1251  ACTGGCTGTT TGCCTATACC TCCGATCATG GCCAGTATGT TCGCCAAGAT
1301  ATCTACAATC AAGGCACGGT GCAGCCCGAC AGCTATCTCG TGCCGCTAGT
1351  GTTGTACAGC CCGGATAAGG CCGTGCAACA GGCTGCCAAC CAGGCTTTTG
1401  CGCCTTGCGA GATTGCCTTC CATCAGCAGC TTTCAACGTT CCTGATTCAC
1451  ACGTTGGGCT ACGATATGCC GGTTTCAGGT TGTCGCGAAG GCTCGGTAAC
1501  GGGCAACCTG ATTACGGGTG ATGCAGGCAG CTTGAACATT CGCGACGGCA
1551  AGGCGGAATA TGTTTATCCG CAATGA
```

Number 36 ORF

```
  1  ...ACCCTGCTCC TCTTCATCCC CCTCGTCCTC ACAC.GTGCG GCACACTGAC
 51     CGGCATACTC GCCCaCGGCG GCGGCAAACG CTTTGCCGTC GAACAAGAAC
101     TCGTCGCCGC ATCGTCCCGC GCCGCCGTCA AAGAAATGGA TTTGTCCGCC
151     yTAAAAGGAC GCAAAGCCGC CyTTTACGTC TCCGTTATGG GCGACCAAGG
201     TTCGGGCAAC ATAAGCGGCG GACGCTACTC TATCGACGCA CTGATACGCG
251     GCGGCTACCA CAACAACCCC GAAAGTGCCA CCCAATACAG CTACCCCGCC
301     TACGACACTA CCGCCACCAC CAAATCCGAC GCGCTCTCCA GCGTAACCAC
351     TTCCACATCG CTTTTGAACG CCCCCGCCGC CGyCyTGACG AAAAACAGCG
401     GACGCAAAGG CGAACGcTCC GCCGGACTGT CCGTCAACGG CACGGGCGAC
451     TACCGCAACG AAACCCTGCT CGCCAACCCC CGCGACGTTT CCTTCCTGAC
501     CAACCTCATC CAAACCGTCT TCTACCTGCG CGGCATCGAA GTCgTACCGC
551     CCGrATACGC CGACACCGAC GTATTCGTAA CCGTCGACGT A...
```

Number 37 ORF

```
  1  ATGGCAGAGA TCTGTTTGAT AACCGGCACG CCCGGTTCAG GGAAAACATT
 51  AAAAATGGTT TCCATGATGG CGAATGATGA AATGTTTAAG CCTGATGAAA
101  AAGCCATACG CCGTAAAGTA TTTACGAACA TAAAAGGCTT GAAAATACCG
151  CACAC[illegible]TACA TAGAAACGGA CGCAAAAAAG CTGCCGAAAT CGACAGATGA
201  GCAGCTTTCG GCGCATGATA TGTACGAATG GATAAAGAAG CCCGAAAATA
251  TCGGGTCTAT TGTCATTGTA GATGAAGCTC AAGACGTATG GCCGGCACGC
301  TCGGCAGGTT CAAAAATCCC TGAAAATGTC CAATGGCTGA ATACGCACAG
351  ACATCAGGGC ATTGATATAT TTGTTTTGAC TCAAGGTCCT AAGCTTCTAG
401  ATCAAAATCT TAGAACGCTT GTACGGAAAC ATTACCACAT CGCTTCAAAC
451  AAGATGGGTA TGCGTACGCT TTTAGAATGG AAAATATGCG CGGACGATCC
501  CGTAAAAATG GCATCAAGCG CATTCTCCAG TATCTATACA CTGGATAAAA
551  AAGTTTATGA CTTGTAysrr TmmGCGGAAG TTCATACCGT AAATAAGGTC
601  AAGCGGTCAA AGTGGTTTTA CACTCTGCCa GTAATAGTAT TGCTGATTCC
651  CGTGTTTGTC GGCCTGTCCT ATAAAATGTT GagCaGTTAC GGAAAAAAAC
701  aGGAAGAACC CGCAGCACAA GAATCGGCGG CAACAGAACA GCAGGCAGTA
751  CTTCCGGATA AAACAGAAGG CGAGCCGGTA AATAACGGCA ACCTTACCGC
801  AGATATGTTT GTTCCGACAT TGTCCGAaAA ACCCGrAAGC AAGCcgaTTT
851  ATAACGGTGT AAGGCAGGTA AGAACCTTTG AATATATAGC AGGCTGTATA
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 901  GAAGGCGGAA GAACCGGATG CGCCTGCTAT TCGCaTCAAG GGACGGCATt
 951  gaAAGAAGTG ACGGaGTTGA TGTGccaAgG aCTATGTaAA AAacGGCTTG
1001  CCGTTTAACC CaTACAAAGA AGAAAGCCAA GGGCAGGAAG TTCAGCAAAG
1051  CGCGCAgCAA CATTCGGACA GGGCGgCAAG TTGCCACATT GGGCGGAAAA
1101  CCGTAGCAGA ACCTAATGTA CGATAATTGG GAAGAACGCG GGAAACCGTT
1151  TGAAGGAATC GGaCGGGGGC GTGGTCGGAT CGGCAAACTG A
```

Number 38 ORF

```
   1  GTGGTTTTCC TGAATGCCGA CAACGGGATA TTGGTTCAGG ACTTGCCTTT
  51  TGAAGTCAAA CTGAAAAAAT TCCATATCGA TTTTTACAAT ACGGGTATGC
 101  CGCGTGATTT CGCCAGCGAT ATTGAAGTGA CGGACAAGGC AACCGGTGAG
 151  AAACTCGAGC GCACCATCCG CGTGAACCAT CCTTTGACCT TGCACGGCAT
 201  CACGATTTAT CAGGCGAGTT TTGCCGACGG CGGTTCGGAT TTGACATTCA
 251  AGGCGTGGAA TTTGGGTGAT GCTTCGCGCG AGCCTGTCGT GTTGAAGGCA
 301  ACATCCATAC ACCAGTTTCC GTTGGAAATT GGCAAACACA AATATCGTCT
 351  TGAGTTCGAT CAGTTCACTT CTATGAATGT GGAGGACATG AGCGAGGGCG
 401  CGGAACGGGA AAAAAGCCTG AAATCCACGC TGCCCGATGT CCGCGCCGTT
 451  ACTCAGGAAG GTCACAAATA CACCAAT... .......... .....TACCG
 501  TATCCGTGAT GCGCCAGGCC AGGCGGTCGA ATATAAAAAC TATATGCTGC
 551  CGGTTTTGCA GGAACAGGAT TATTTTTGGA TTACCGGCAC GCGCAGCGC.
 601  TTGCAGCAGC AATACCGCTG GCTGCGTATC CCCTTGGACA AGCAGTTGAA
 651  AGCGGACACC TTTATGGCAT TGCGTGAGTT TTTGAAAGAT GGGGAAGGGC
 701  GCAAACGTCT .GTTGCCGAC GCAACCAAAG GCGCACCTGC CGAAATCCGC
 751  GAACAATTCA TGCTGGCTGC GGAAAACACG CTGAACATCT TTGCACAAAA
 801  AGGCTATTTG GGATTGGACG AATTTATTAC GTCCAATATC CCGAAAGAGC
 851  AGCAGGATAA GATGCAGGGC TATTTCTACG AAATGCTTTA CGGCGTGATG
 901  AACGCTGCTT TGGATGAAAC CAT.ACCCGG TACGGCTTGC CCGAATGGCA
 951  GCAGGATGAA GCGCGGAATC GTTTCCTGCT GCACAGTATG GATGCGTACA
1001  CGGGTTTGAC CGAATATCCC GCGCCTATGC TGCTGCAACT TGATGGGTTT
1051  TCCGAGGTGC GTTCGTCGGG TTTGCAGATG ACCCGTTCCC C.GGTCCGCT
1101  TTTGGTCTAT CTC...
```

Number 39 ORF

```
   1  ATGATGAGTA ATAmAATGGm ACAAAAAGGG TTTACATTGA TTGmGmTGAT
  51  GATAGTCGTC GCGATACTCG GCATTATCAG CGTCATTGCC ATACCTTCTT
 101  ATCmAAGTTA TATTGAAAAA GGCTATCAGT CCCAGCTTTA TACGGAGATG
 151  GyCGGTATCA ACAATATTTC CAAACAGTTT ATTTTGAAAA ATCCCCTGGA
 201  CGATAATCAG ACCATCGAGA ACAAACTGGA AATATTTGTC TCAGGCTATA
 251  AGATGAATCC GAAAATTGCC AAAAAaTATA GTGTTTCGGT AAAGTTTGTC
 301  GATAAGGAAA AATCAAGGGC ATACAGGTTG GTCGGCGTTC CGAAGGCGGG
 351  GACGGGTTAT ACTTTGTCGG TATGGATGAA CAGCGTGGGC GACGGATACA
 401  AATGCCGTGA TGCCGCTTCT GCCCAAGCCC ATTTGGAGAC CTTGTCCTCA
 451  GATGTCGGCT GTGAAGCCTT CTCTAATCGT AAAAAATAA
```

Number 40 ORF

```
   1  ATGAAAAAAT CCTCCCTCAT CAGCGCATTG GGCATCGGTA TTTTGAGCAT
  51  CGGCATGGCA TTTGCCGCCC CTGCCGACGC GGTAAGCCAA ATCCGTCAAA
 101  ACGCCACTCA AGTATTGAGC ATCTTAAAAA ACGGCGATGC CAACACCGCT
 151  CGCCAAAAAG CCGAAGCCTA TGCGATTCCC TATTTCGATT TCCAACGTAT
 201  GACCGCATTG GCGGTCGGCA ACCCTTGGsG CACCG.GTCC GACG.GCAAA
 251  AACAAGCGTT GGCCn.AGAA TTTCAACCC...
```

Number 41 ORF

```
   1  ATGAAACACA TACTCCCCCT GATTGCCGCA TCCGCACTCT GCATTTCAAC
  51  CGCTTCGGCA CATCCTGCCA GCGAACCGTC CACTCAAAAC GAAACCGCTA
 101  TGATCACGCA TACCCTCATC TCAAAATACA GTTTTGGnnn nnnnnnnnnn
 151  nnnnnnnnnn nnGCCATAAA AAGCAAAGGG ATGGACATTT TTGCCGTCAT
```

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201  CGACCATCAG GAAGCCGCAC GCCGAAACGG TTTAACGATG CAGCCGGCAA
251  AAGTCATCGT CTTCGGCACG CCCAAAGCCG GCACGCCGCT GATGGTCAAA
301  GACCCCGCCT TCGCCCTGCA ACTGCCCCTA CGCGTCCTCG TTACCGAAAC
351  GGACGGCAAA GTACGCGCCG CCTATACCGA TACGCGCGCC CTCATCGCCG
401  GCAGCCGCAT CGGTTTCGAC GAAGTGGCAA ACACTTTGGC AAACGCCGAA
451  AAACTGATAC AAAAAACCGT AGGCGAATAA
```

Number 42 ORF

```
  1  ATGGCTTTTA TTACGCGCTT ATTCAAAAGC AGTAAATGGC TGATTGTGCC
 51  GCTGATGCTC CCCGCCTTTC AGAATGTGGC GGCGGAGGGG ATAGATGTGA
101  GCCGTGCCGA AGCGAGGATA ACCGACGGCG GGCAGCTTTC CATCAGCAGC
151  CGCTTCCAAA CCGAGCTGCC CGACCAGCTC CAACAGGCGT TGCGCCGGGg
201  CGTGCCGCTC AACTTTACCT TAAGCTGGCA GCTTTCCGCC CCGATAATCG
251  CTTCTTATCG GTTTAAATTG GGGCAACTGA TTGGCGATGA CGACaATATT
301  GACTACAAAC TGAGTTTCCA TCCGCTGACc AaACGCTACC GCGTTACCgT
351  CGgCGCGTTT TCGACAGACT ACGACACCTT GGATGCGGCA TTGCGCGCGA
401  CCGGCGCGGT TGCCAACTGG AAAGTCCTGA ACAAAGGCGC GCTGTCCGGT
451  GCGGAAGCAG GGGAAACCAA GGCGGAAATC CGCCTGACGC TGTCCACTTC
501  AAAACTGCCC AAGCCTTTTC AAATCAATGC ATTGACTTCT CAAAACTGGC
551  ATTTGGATTC GGGTTGGAAA CCTCTAAACA TCATCGGGAA CAAATAA
```

Number 43 ORF

```
   1  ATGGACACAA AAGAAATCCT CGG.TACGCG GcAGGcTCGA TCGGCAGCGC
  51  GGTTTTAGCC GTCATCATCc TGCCGCTGCT GTCGTGGTAT TTCCCCGCCG
 101  ACGACATCGG GCGCATCGTG CTGATGCAGA CGGCGGCGGG GCTgACGGTG
 151  TCGGTGTTGT GCCTCGGGCT GGATCAGGCA TACGTCCGCG AATACTATGC
 201  CACCGCCGAC AAAGACAcCT TGTTCAAAAC CCTGTTCCTG CCGCCGCTGC
 251  TGTCTGCCGC CGCGATAGCC GCCCTGCTGC TTTCCCGCCC GTCCCTGCCG
 301  TCTGAAATCC TGTTTTCACT CGACGATGCC GCCGCCGGCa TCGGGCTGGT
 351  GCTGTTTGAA CtGAGCTTCC TGCCCATCCG CTTTCTCTTA CTGGTTTTGC
 401  GTATGGAAGG ACGCGCCcTT GCCTTTTCGT CCGCGCAACT CGTGCCcAAG
 451  CTCGCCATCC TGCTGCTG.T GCCGCTGACG GTCGGGCTGC TGCACTTTCC
 501  AGCGAACACC GCCGTCCTGA CCGCCGTTTA CGCGCTGGCA AACCTTGCCG
 551  CCGCCGCCTT TTTGCTGTTT CAAAACCGAT GCCGTCTGAA GGCCGTCCGG
 601  CACGCACCGT TTTCGCCCGC CGTCCTGCAC CGGGGG.TGC GCTACGGCAT
 651  ACCGATCGCA CTGAGCAGCA TCGCCTATTG GGGGCTGGCA TCCGCCGACC
 701  GTTTGTTCCT GAAAAAATAT GCCGGCCTGG AACAGCTCGG CGTTTATTCG
 751  ATGGGTATTT CGTTCGGCGG GGCGGCATTA TTGTTCCAAA GCATCTTTTC
 801  AACGGTCTGG ACACCGTATA TTTTCCGCGC AATCGAAGAA AACGCCCCGC
 851  CCGCTCGCCT CTCGGCAACG GCAGAATCCG CCGCCGCCCT GCTTGCCTCC
 901  GCCCTCTGC. TGACCGGCAT TTTCTCGCCC CTTGCCTCCC TCCTGCTGCC
 951  GGAAAACTAC GCCGCCGTCC GGTTTATCGT CGTATCGTGT ATG.TGCCGC
1001  CGCTGTTTTG CACGCTGGCG GAAATCAGCG GCATCGGTTT GAACGTCGTT
1051  CGCAAAACGC GCCCGATCGC GCTCGCCACC TTGGGCGCGC TGGCGGCAAA
1101  CCTGCTGCTG CTGGGGCTTG ACCGTGCCGT ACCGGCGAGG CCGCC.GGCG
1151  CGGCGGTTGC CTGTGCCGCC TCATTCTGGC TGTTTTTTGC CTTCAAGACC
1201  GAAAGCTCyT GCCGCCTGTG GCAGCCGCTC AAACGCCTGC CGCTTTATCT
1251  GCACACATTG TTCTGCCTGA CCTCCTCGGC GGCCTACACC TGCTTCGGCA
1301  CGCCGGCAAA CTATCCCCTG TTTGCCGGCG TATGGGCGGC ATATCTGGCA
1351  GGCTGCATCC TGCGCCACCG GAAAGATTTG CACAAACTGT TTCATTATTT
1401  GAAAAAACAA GGTTTCCCAT TATGA
```

Number 44 ORF

```
  1..ATCCTGAAAC CGCATAACCA GCTTAAGGAA GACATCCAAC CTGATCCGGC
 51  CGATCAAAAC GCCTTGTCCG AACCGGATGC TGCGACAGAG GCAGAGCAGT
101  CGGATGCGGA AAATGCTGCC GACAAGCAGC CCGTTGCCGA TAAAGCCGAC
151  GAGGTTGAAG AAAAGGCGGG CGAGCCGGAA CGGGAAGAGC CGGACGGACA
201  GGCAGTGCGT AAGAAAGCGC TGACGGAAGA GCGTGAACAA ACCGTCAGGG
251  AAAAAGCGCA GAAGAAAGAT GCCGAAACGG TTAAAATACA AGCGGTAAAA
```

301 CCGTCTAAAG AAACAGAGAA AAAAGCTTCA AAAGAAGAGA AAAAGGCGGC
351 GAAGGAAAAA GTTGCACCCA AACCAACCCC GGAACAAATC CTCAACAGCG
401 GCAgCATCGA AAAmGCGCGC AgTGCCGCCG CCAAAGAAGT GCAGAAAATG
451 AA.AACGTCC GACAAGGCGG AAGC.AACGC ATTATCTGCA AATGGGCGCG
501 TATGCCGACC GTCAGAGCGC GGAAGGGCAG CGTGCCAAAC TGGCAATCTT
551 GGGCATATCT TCCAAGGTGG TCGGTTATCA GGCGGGACAT AAAACGCTTT
601 ACCGGGTGCA AAGCGGCAAT ATGTCTGCCG ATGCGGTGA

Number 45 ORF

1 ATGAACCACG ACATCACTTT CCTCACCCTG TTCCTACTCG GTkTCTTCGG
51 CGGAAcGCAC TGCATCGGTA TGTGCGGCGG ATTAAGCAGC GcGTTTGs.s
101 TCCAACTCCC CCCGCATATC AACCGCTTTT GGCTGATCCT GCTGCTTAAC
151 ACAGGACGGG TAAGCAGCTA TACGGCAAtC GGCCTGATAC TCGGATTAAT
201 CGGACAGGTC GGCGTTTCAC TCGAcCAaAC CCGCGTCCTG CAGAATATTT
251 TATACACGGC CGCCAACCTC CTGCTGCTCT TTTTAGGCTT ATACTTGAGC
301 GGTATTTCTT CCTTGGCGGC AAAAATCGAG AAaATCGGCA AACCGATATG
351 GCGGAACCTG AACCCGATAC TCAACCGGCT GTTACCCATA AAATCCATAC
401 CCGCCTGCCT tGCGgTCGGA ATATTATGGG GCTGGCTGCC GTGCGGACTG
451 GTTTACAGCG CGTCGCTTTA CGCGCTGGGA AgCGGTAGTG CGGCAACGGG
501 CGGGTTATAT ATGCTTGCCT TTGCACTGGG TACGCTGCCC AATCTTtTAG
551 CAATCGGCAT TTTtTCCCTG CAACTGAAwA AAATCATGCA AAACCGATAT
601 ATCCGCCTGT GTACGGGATT ATCCGTATCA TTATGGGCAT TATGGAAACT
651 TGCCGTCCTG TGGCTGTAA

Number 46 ORF

1 ATGGAAAACC AAAGGCCGCT CCTAGGCTTT CGCTTGGCAC TTTTGGCGGC
51 GATGACGTGG GGAACGCTGC CGAT.TCCGT GCGGCAGGTA TTGAAGTTTG
101 TCGATGCGCC GACGCTGGTG TGGGTGCGTT TTACCGTGGC GGCGGCGGTA
151 TTGTTTGTTT TGCTGGCACT GGGCGGGCGG CTGCcGAAGC GGCGgGGATT
201 TTTCTTGGTG CTCATTCAGG CTGCTGCTGC TCGGCGTGGC GGGCATTTCG
251 GCAAACTTTG TGCTGATTGC CCAAGGGCTG CATTATATTT CGCCGACCAC
301 GACGCAGGTT TTGTGGCAGA TTTCGCCGTT TACGATGATT GTwGTCGGTG
351 TGTTGGTGTT TAAAGACCGG ATGACTGCCG CTCAGAAAAT CGGCTTGGTT
401 TTGCTGCTTG CCGGTTTGCT TATGTATTTT AACGATAAAT TCGGCGAGTT
451 GTCGGGTTTG GGCGCGTATG C.AAGGGCGT GTTGCTGTGT GCGGCAGGCA
501 GTATGGCATG GGTGTGTAAT GCCGTGGCGC AAAAGCTGCT GTCGGCGCAA
551 TTCGGGCCGC AACAGATTCT GCTGTTGATT TATGCGGCAA GTGCCGCCGT
601 GTTCCTGCCG TTTGCCGAAC CGGCACACAT CGGAAGTATG GACGGTACGT
651 TGGCGTGGGT ATGTATTGCG TATTGCTGCT TGAATACGTT AATCGGTTAC
701 GGCTCGTTCG GCGAGGCGTT GAAACATTGG GAGGCTTCCA AAGTCAGCGC
751 GGTAACAACC TTGCTCCCCG TGTTTACCGT AATAAATACT TTGCTCGGGC
801 ATTATGTGAT GCCTGAAACT TTTGCCGCGC CGGA..

Number 47 ORF

1 ATGGTAGCTC GTCGGGCTCA TAACCCGAAG GTCGTAGGTT CGAATCCTGT
51 .CCCGCAACC TAATTTCAAA CCCCTCGGTT CAATGCCGAG GG.GTTTTGT
101 T.TTGCCTGT TTCCTGTTTC CTGTTTCCTG CCGCCTCCGT TTTTTGCCGG
151 ATTTTCCTTC CGGCCGCAAT ATCGGAACGG CAGACCGCCG TCTGTTTGCG
201 GTTGCAAATT CAGGCAGTTT GGCTACAATC TTCCGCATTG TCTTCAAGAA
251 AGCCAACCAT GCCGACCGTC CGTTTTACCG AATCCGTCAG CAAACAAGAC
301 CTTGATGCTC TGTTCGAGTG GGCAAAAGCA AGTTACGGTG CAGAAAGTTG
351 CTGGAAAACG CTGTATCTGA ACGGTCysCC TTTGGGCAAC CTGTCGCCGG
401 AATGGGTGGA ACGCGTsmmA AAAGACTGGG AGGCAGGCTG CyCGGAGTCT
451 TCAGACGGCA TTTTTCTGAA TgCGGACGGc TGgCctGATA TGGgCGGAcg
501 cTTACAGCAC CTCGCCCTCG GTTGGCACTG TGCGGGGCTG TTGGACGgsT
551 GGCGCAACGA GTGTTTCGAC CTGACCGACG GCGGCGGCAA CCCCTTGTTC
601 ACGCTCGaAc GCGCCGyTTT mCGTCCTkTC GGACTGCTCA GCCGCGCCGT
651 CCATCTCAAC GGTCTGACCG AATCGGACGG CCGATGGCAT TTCTGGATAG
701 GCAGGCGCAG TCCGCACAAA GCAGTCGATC CCAACAAACT CGACAATACT

751 rCCGCCGGCG GTGTTTCCGG CGGCGAAATG CCGTCTGAAG CCGTGTGTCG
801 CGAAAGCAGC GAAGAAGCCG GTTTGGATAA AACGCTGcTT CCGCTCATCC
851 GCCCGGTATC GCAGCTGCAC AGCCTGCGCT CCGTCAGCCG GGGTGTACAC
901 AATGAAATCC TGTATGTATT CGATGCCGTC CTGCCG...

Number 48 ORF

1 ATGAATAGAC CCAAGCAACC CTTCTTCCGT CCCGAAGTCG CCGTTGCCCG
51 CCAAACCAGC CTGACGGGTA AAGTGATTCT GACACGACCG TTGTCATTTT
101 CCCTATGGAC GACATTTGCA TCGATATCTG CGTTATTGAT TATCCTGTTT
151 TTGATATTTG GTAACTATAC GCGAAAGACA ACAGTGGAGG GACAAATTTT
201 ACCTGCATCG GGCGTAATCA GGGTGTATGC ACCGGgATACG rGkACAATTA
251 CAGCGAAATT CGTGGAAGAT GGmsAAAAGG TTAAGGCTGG CGACAAGCTA
301 TTTGCGCTTT CGACCTCACG TTTCGGCGCA GGAGGTAGCG TGCAGCAGCA
351 GTTGAAAACG GAGGCAGTTT TGAAGAAAAC GTTGGCAGAA CAGGAACTGG
401 GTCGTCTGAA GCTGATACAC GGGAATGAAA CGCGCAgCcT TAAAGCAACT
451 GTCGAACGTT TGGAAAACCA GGAACTCCAT ATTTCGCAAC AGATAGACGG
501 TCAGAAAAGG CGCATTAGAC TTGCGGAAGA AATGTTGCAG AAATATCGTT
551 TCCTATCCGC .CAATGA

Number 49 ORF

1 ATGCTGAATA CTTTTTTTGC CGTATTGGGC GGCTGCCTGC TGCT.TTGCC
51 GTGCGGCAAA TCCGTAAATA CGGCGGTACA GCCGCAAAAC GCGGTACAAA
101 GCGCGCCGAA ACCGGTTTTC AAAGTCATAT ATATCGACAA TACGGCGATT
151 GCCGGTTTGG ATTTGGGACA AAGCAGCGAA GGCAAAACCA ACGACGGCAA
201 AAAACAAATC AGTTATCCGA TTAAAGGCTT GCCGGAACAA AATGTTATCC
251 GACTGATCGG CAAGCATCCC GGCGACTTGG AAGCCGTCAG CGGCAAATGT
301 ATGGAAACCG ATGATAAGGA CAGTCCGGCA GGTTGGGCAG AAAACGGCGT
351 GTGCCATACC TTGTTTGCCA AACTGGTGGG CAATATCGCC GAAGACGGCG
401 GCAAACTGAC GGATTACCTA GTTTCGCATG CCGCCCTGCA ACCCTATCAG
451 GCAGGCAAAA GCGGCTATGC CGCCGTGCAG AACGGACGCT ATGTGCTGGA
501 AATCGACAGC GAAGGGGCGT TTTATTTCCG CCGCCGCCAT TATTGA

Number 50 ORF

1 ATGGAAGATT TATATATAAT ACTCGCTTTG GGTTTGGTTG CGATGATTGC
51 CGgATTTATC GATgcgatTg cGggCGGGGG TGGTTTGATT ACGCTGCCCG
101 CACTCTTGTT GGCAGGTATT CCTCCCGTGT CGGCAATTGC CACCAACAAG
151 CTGCAAgCAG CCGCTGCTAC GTTTTCAGCT ACGGTTTCTT TTGCACGCAA
201 AGGTTTGATT GATTGGAAGA AAGGTCTCCC GATTGCCGCA GCATCGTTTG
251 TAGGCGGCGT GGcCGGTGCA TTATCGGTCA GCTTGGTTTC CAAAGATATT
301 CTgCTgGCGG TCGTGCCGGT TTTGTTGATA TTTGTCGCAC TGTATTTTGT
351 GTTTTCGCCC AAGCTCGACG GCAGTAAGGA AGGCAAAGCC AGAATGTCTT
401 TTTTTCTGTT cGGGCTGACG GTCGC.ACCG CTTTTGGGTT TTTACGACGG
451 TGTGTTCGGA CCGGGTGTCG GCTCGTTTTT TCTGATTGCC TTTATTGTTT
501 TGCTCGGCTG CAAgCTGTTG AACGCGATGT CTTACACCAA ATTGGCGAAC
551 GTTGCCTGCA ATCTTGGTTC GCTATCGGTA TTCCTGCTGC ACGGTTCGAT
601 TATTTTCCCG ATTGCGGCAA CGaTGGCGGT CGGTGCGTTT GTCGGtGCGA
651 ATTTAgGTGC GAGATTTGCC GTaCgctTCG GTTCGAAGCT GATTAA

Number 51 ORF

1 ..CTGCTAGGGT ATTGCATCGG TTATCGGTAC GGCTGTTGCA GCAAAACCAG
51 CCGCAGACGG ATTATTTGGT CAAATTCGGA TCGTTTTGGG CGAG.ATTTT
101 TGGTTTTCTG GGACTGTATG ACGTCTATGC TTCGGCATGG TTTGTCGTTA
151 TCATGATGTT TTTGGTGGTT TCTACCAGTT TGTGCCTGAT TCGCAATGTG
201 CCGCCGTTCT GGCGCGAAAT GAAGTCTTTT CGGGAAAAGG TTAAAGAAAA
251 ATCTCTGGCG GCGATGCGCC ATTCTTCGCT GTTGGATGTA AAAATTGCGC
301 CCGAGGTTGC CAAACGTTAT CTGGAAGTAC AAGGTTTTCA GGGGAAAACC
351 ATTAACCGTG AAGACGGGTC GGTTCTGATT GCCGCCAAAA AAGGCACAAT

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401  GAACAAATGG GGCTATATCT TTGCCCATGT TGCTTTGATT GTCATTTGCC
451  TGGGCGGGTT GATAGACAGT AACCTGCTGT TGAAACTGGG TATGCTGACC
501  GGTCGGATTG TTCCGGACAA TCAGGCGGTT TATGCCAAGG ATTTC.AAGC
551  CCGAAAGTAT .TTTGGGTGC gTCCAATCTC TCATTTAGGG GCAACGTCAA
601  TATTTCCG.A GGGGCAGAgT GCGGATGTGG TTTTCCTGA
```

Number 52 ORF

```
   1  ATGCCGTCTG AAACACGCCT GCCGAACTTT ATCCGCGTCT TGATATTTGC
  51  CCTGGGTTTC ATCTTCCTGA ACGCCTGTTC GGAACAAACC GCGCAAACCG
 101  TTACCCTGCA AGGCGAAACG ATGGGCACGA CCTATACCGT CAAATACCTT
 151  TCAAATAATC GGGACAAACT CCCCTCACCT GCCGAAATAC AAAAACGCAT
 201  CGATGACGCG CTTAAAGAAG TCAACCGGCA GATGTCCACC TATCAGCCCG
 251  ACTCCGAAAT CAGCCGGTTC AACCAACACA CAGCCGGCAA GCCCCTCCGC
 301  ATTTCAAGCG ACTTCGCACA CGTTACTGCC GAAGCCGTCC GCCTGAACCG
 351  CCTGACACAC GGCGCGCTGG ACGTAACCGT CGGCCCCTTG GTCAACCTTT
 401  GGGGATTCGG CCCCGACAAA TCCGTTACCC GTGAACCGTC GCCGGAACAA
 451  ATCAAACAGG CGGCATCTTA TACGGGCATA GACAAAATCA TTTTGAAACA
 501  AGGCAAAGAT TACGCTTCCT TGAGCAAAAC CCACCCCAAG GCCTATTTGG
 551  ATTTATCTTC GATTGCCAAA GGCTTCGGCG TTGATAAAGT TGCGGGCGAA
 601  CTGGAAAAAT ACGGCATTCA AAATTATCTG GTCGAAATCG GCGGCGAGTT
 651  GCACGGCAAA GGCAAAAACG CGCGCGGCGA ACCGTGGCGC ATCGGTATCG
 701  AGCAGCCCAA TATCGTCCAA GGCGGCAATA CGCAGATTAT CGTCCCGCTG
 751  AACAACCGTT CGCTTGCCAC TTCCGGCGAT TACCGTATTT TCCACGTCGA
 801  TAAAAACGGC AAACGCCTCT CCCATATCAT CAACCCGAAC AACAAACGAC
 851  CCATCAGCCA CAACCTCGCC TCCATCAGCG TGGTCGCAGA CAGTGCGATG
 901  ACGGCGGACG GCTTGTCCAC AGGATTATTC GTATTGGGCG AAACCGAAGC
 951  CTTAAAGCTG GCAGAGCGCG AAAAACTCGC TGTTTTCCTG ATTGTCAGGG
1001  ATAAAGGCGG CTACCGCACC GCCATGTCTT CCGAATTTGA AAAACTGCTC
1051  CGCTAA
```

Number 53 ORF

```
   1  ..CCGTGCCGCC GACAGGGCGA CGACGTGTAT GCGGCGCACG CGTCCCGTCA
  51    AAAATTGTGG CTGCGCTTCA TCGGCGGCCG GTCGCATCAA AATATACGGG
 101    GCGGCGCGGC TGCGGACGGG TGGCGCAAAG GCGTGCAAAT CGGCGGCGAG
 151    GTGTTTGTAC GGCAAAATGA AGGCAGCCkA yTGGCAATCG GCGTGATGGG
 201    CGGCAGGGCC GGCCAGCACG CwTCAGTCAA CGGCAAAGGC GGTGCGGCAG
 251    gCAGTGATTT GTATGGTTAT GgCGGGGgTG TTTATGCTgC GTGGCATCAG
 301    TTGCGCGATA AACAAACGGG TgCGTATTTG GACGGCTGGT TGCAATACCA
 351    ACGTTTCAAA CACCGCATCA ATGATGAAAA CCGTGCGGAA CgCTACAAAA
 401    CCAAAGGTTG GACGGCTTCT GTCGAAGGCG GCTACAACGC GCTTGTGGCG
 451    GAAGGCATTG TCGGAAAAGG CAATAATGTG CGGTTTTACC TACAACCGCA
 501    GgCGCAGTTT ACCTACTTGG GCGTAAACGG CGGCTTTACC GACAGCGAGG
 551    GGACGGCGGT CGGACTGCTC GGCAGCGGTC AGTGGCAAAG CCGCGCCGGC
 601    AtTCGGGCAA AAACCCGTTT TGCTTTGCGT AACGGTGTCA ATCTTCAGCC
 651    TTTTGCCGCT TTTAATGTtt TGCACAGGTC AAAATCTTTC GGCGTGGAAA
 701    TGGACGGCGA AAAACAGACG CTGGCAGGCA GGACGGCACT CGAAGGGCGG
 751    TTCGGTATTG AAGCCGGTTG GAAAGGCCAT ATGTCCGCA..
```

Number 54 ORF

```
   1  ..GCGGAATATG TTCAGTTCTC TATAGATTTG TTCAGTGTGG GTAAATCGGG
  51    GGGCGGTATA CCTAAGGCTA AGCCTGTGTT TGATGCGAAA CCGAGATGGG
 101    AGGTTGATAG GAAGCTTAAT AAATTGACAA CTCGTGAGCA GGTGGAGAAA
 151    AATGTTCAGG AAACGAGAAG AAGGAGTCAG AGTAGTCAGT TTAAAGCCCA
 201    TGCGCAACGA GAATGGGAAA ATAAAACAGG GTTAGATTTT AATCATTTTA
 251    TAGGTGGTGA TATCAATAAA AAAGGCACAG TAACAGGAGG GCATAGTCTA
 301    ACCCGTGGTG ATGTACGGGT GATACAACAA ACCTCGGCAC CTGATAAACA
 351    TGGGGT.TTA TCAAGCGACA GTGGAAATTN A
```

Number 55 ORF

```
  1 ATGAATATTC ACACCCTGCT CTCCAAACAA TGGACGCTGC CGCCATTCCT
 51 GCCGAAACGG CTGCTGCTGT CCCTGCTGAT ACTGCTTGCC CCCAATGCGG
101 TGTTTTGGGT TTTGGCACTG CTGACCGCCA CCGCCCGCCC GATTGTCAAT
151 TTGGACTATC TTCCCGCCGC GCTGCTGATC GCCCTGCCTT GGCGTTTCGT
201 CAAAATTGCC GGCGTATTGG CGTTTTGGCT GGCGGTTTTG TTTGACGGGC
251 TGATGATGGT GATCCAACTC TTCCCTTTTA TGGATCTCAT CGGCGCCATC
301 AACCTCGTCC CCTTCATCCT GACCGCCCCC GCCCCTTATC AGATAATGAC
351 CGGGCTG...
```

Number 56 ORF

```
  1 ..GTGAGCGGAC GTTACCGCGC TTTGGATCGC GTTTCCAAAA TCATCATCGT
 51   TACTTTGAGT ATCGCCACGC TTGCCGCCGC CGGCATCGCT ATGTCGCGCG
101   GTATGCAGAT GCAGTCCGAT TTTATCGAGC CGACACCGTG GACGCTTGCC
151   GGTTTGGGCT TCCTGATCGC GCTGATGGGC TGGATGCCCG CGCCGATTGA
201   AATTTCCGCC ATCAATTCTT TGTGGGTAAC CGAAAAACAA CGCATCAATC
251   CTTCCGAATA CCGCGACGGG ATTTTTGAAT TCAACGTCGG TTATATCGCC
301   AGTGCGGTTT TGGCTTTGGT TTTCCTTGCA CTGGGCGC.G TAGCGCCGAA
351   CGGCAACGGC GA.ACAGTGC AGATGGCGGG CGGCAAATAT AACGGGCAAT
401   TGATCAATAT GTACGCC..
```

Number 57 ORF

```
  1 ..TTGCGGGAAA CGGCATATGT TTTGGATAGT TTTGATCGTT ATTTTGTTGT
 51   TGCGCTTGCC GGCTTGTTTT TTGTCCGCGC ACAATCCGAA CGCGAGTGGA
101   TGCGCGAGGT TTCTGCGTGG CAGGAAAAGA AAGGGGAAAA ACAGGCGGAG
151   CTGCCTGAAA TCAAAGACGG TATGCCCGAT TTTCCCGAAC TTGCCCTGAT
201   GCTTTTCCAC GCCGTCAAAA CGGCAGTGTA TTGGCTGTTT GTCGGTGTCG
251   TCCGTTTCTG CCGAAACTAT CTGGCGCACG AATCCGAACC GGACAGGCCC
301   GTTCCGCCT..
```

Number 58 ORF

```
   1 ATGATTTATC AAAGAAACCT CATCAAAGAA CTCTCTTTTA CCGCCGTCGG
  51 CATTTTCGTC GTCCTCTTGG CGGTATTGGT CTCCACGCAG GCAATCAACC
 101 TGCTCGGCCG TGCCGCCGAC GGGC..GTGA TCGCCATCGA TGCCGTGTTG
 151 GCATTGGTCG GCTTCTGGGT C......... .......... ..........
                                //
 901 .........A TTGCCATCGG TTTGTTTTTA ATTTACCAAA ACGGGCTGAC
 951 CCTGCTTTTT GAAGCCGTGG AAGACGGCAA AATCCATTTT TGGCTCGGAC
1001 TGCTGCCTAT GCACATTATC ATGTTTGTCC TTGCACTCAT CCTGTTGCGC
1051 GTCCGCAGTA TGCCCAGCCA GCCCTTCTGG CAGGCGGTTG GCAAAAGTCT
1101 GACATTGAAA GGCGGAAAAT GA
```

Number 59 ORF

```
  1 ..GGTGGTGGTT TTATCAATGC TTCCTGTGCC ACTTTGACGA CAGCCAAACC
 51   GCAATATCAA GCAGGAGACC TTAGCGCTTT TAAGATAAGG CAAGGCAATG
101   TTGTAATCGC CGGACACGGT TTGGATGCAC GTGATACCGA TTACACACGT
151   ATTCTCAGTT ATCATTCCAA AATCGATGCA CCCGTATGGG GACAAGATGT
201   TCGTGTCGTC GCGGGACAAA ACGATGTGGC CGCAACAGGT GATGCACATT
251   CGCCTATTCT CAATAATGCT GCTGCCAATA CGTCAAACAA TACAGCCAAC
301   AACGGCACAC ATATCCCTTT ATTTGCGATT GATACAGGCA AATTAGGAGG
351   TAT.GTATGC CAACAAAATC ACCTTGATCA GTACGGTCGA GCAAGCAGGC
401   ATTCGTAA
```

Number 60 ORF

1 ..TCAACGGGAC ATAGCGAACA AAATTACACT TTGCCGCGAG AAATCACACG
51 CAACATTTCA CTGGGTTCAT TTGCCTATGA ATCGCATCGC AAAGCATTAA
101 GCCATCATGC GCCCAGCCAA GGCACTGAGT TGCCGCAAAG CAACGGTATT
151 TCGCTACCCT ATACGTCCAA TTCTTTTACC CCATTACCCA GCAGCAGCTT
201 ATACATTATC AATCCTGTCA ATAAAGGCTA TCTTGTTGAA ACCGATCCAC
251 GCTTTGCCAA CTACCGTCAA TGGTTGGGTA GTGACTATAT GCtGGACAGC
301 CTCAAACTAG ACCCAAACAA TTTACATAAA CGTTTGGGTG ATGGTTATTA
351 CGAGCAACGT TTAATCAATG AACAAATCGC AGAGCTGACA GGGCATCGTC
401 GTTTAGAcGG TTATCAAAAC GACGAAGAAC AATTTAAAGC CTTAATGGAT
451 AATGGCGCGA CTGCGGCACG TTcGATGAAT CTCAGCGTTG GCATTGCATT
501 AAGTGCCGAG CAAGTAGCGC AACTGACCAG CGATATTGTT TGGTTGGTAC
551 AAAAAGAAGT TAAGCTTCCT GATGGCGGCA CACAAACCGT ATTGGTGCCA
601 CAGGTTTATG TACGCGTTAA AAATGGCGAC ATAGACGGTA AAGGTGCATT
651 GTTGTCAGGC AGCAATACAC AAATCAATGT TTCAGGCAGC CTGAAAAACT
701 CAGGCACGAT TGCAGGgCGC AATGCGCTTA TTATCAATAC CGATACGCTA
751 GACAATATCG GTGGGCGTAT TCATGCGCAA AAATCAGCGG TTACGGCCAC
801 ACAAGACATC AATAATATTG GCGGCATGCT TTCTGCCGAA CAGACATTAT
851 TGCTCAACGC AGGCAACAAC ATCAACAGCC AAAGCACCAC CGCCAGCAGT
901 CAAAATACAC AAGGCAGCAG CACCTACCTA GACCGAATGG CAGGTATTTA
951 TATCACAGGC AAAGAAAAAG GTGTTT..

Number 61 ORF

1 ..TCAGGGAATA ACCTCAATGC CAAAGCTGCC GAAGTCAGCA GCGCAAACGG
51 TACACTCGCT GTGTCTGCCA ATAATGACAT CAACATCAGC GCAGGCATCA
101 ACACGACCCA TGTTGATGAT GCGTCCAAAC ACACAGGCAG AAGCGGTGGT
151 GGCAATAAAT TAGTCATTAC CGATAAAGCC CAAAGTCATC ACGAAACCGC
201 CCAAAGCAGC ACCTTTGAAG GCAAGCAAGT TGTATTGCAG GCAGGAAACG
251 ATGCCAACAT CCTTGGCAGC AATGTTATTT CCGATAATGG CACCCAGATT
301 CAAGCAGGCA ATCATGTTCG CATTGGTACA ACCCAAACTC AAAGCCAAAG
351 CGAAACCTAT CATCAAACCC AGAAATCAGG ATTGATGAGT GCAGGTATCG
401 GCTTCACTAT TGGCAGCAAG ACAAACACAC AAGAAAACCA ATCCCAAAGC
451 AACGAACATA CAGGCAGTAC CGTAGGCAGC TTGAAAGGCG ATACCACCAT
501 TGTTGCAGGC AAACACTACG AACAAATCGG CAGTACCGTT TCCAGCCCGG
551 AAGGCAACAA TACCATCTAT GCCCAAAGCA TAGACATTCA AGCGGCACAC
601 AACAAATTAA ACAGTAATAC CACCCAAACC TATGAACAAA AAGG.CTAAC
651 GGTGGCATTC AGTTCGCCCG TTACCGATTT GGCACAACAA ...

Number 62 ORF

1 ATGATTTACA TCGTACTGTT TCTAGCTGTC GTCCTCGCCG TTGTCGCCTA
51 CAACATGTAT CAGGAAAACC AATACCGCAA AAAAGTGCGC GACCAGTTCG
101 GACACTCCGA CAAAGATGCC CTGCTCAACA GCAwAACCAG CCATGTCCGC
151 GACGGCAAAC CGTCCGGCGG GTCAGTCATG ATGCCGAAAC CCCAACCGGC
201 GGTCAAAAAA ACGGCAAAAC CCCAAGACCC CGyCATGCGC AACCTGCAAG
251 AACAGGATGC CGTCTACATC GCCAAGCAGA AACAGGCAAA AGCCTCCCCG
301 TTCAAAACCG AAATCGAAAC CGCCTTGGAA GAAAGCGGCA TTATCGGCAA
351 CTCCGCCCAC ACCGTTTCCG AACCCCAAAC CGGACATTCC GCAACGAAAC
401 CTGCCGACGC GTCGGCAAAA CCTGCACCCG TTCCGCAAAC ACCTGCAAAA
451 CCGCTGATTA CGCTCAAAGA ACTGTCAAAA GTCGAATTAT CCTGGTTTGA
501 CGTGCGCATC GACTTCATCT CCTAT...

Number 63 ORF

1 ..GCGCGGCACG GCACGGAAGA TTTCTTCATG AACAACAGCG ACAC.ATCAG
51 GCAGATAGTC GAAAGCACCA CCGGTACGAT GAAGCTGCTG ATTTCCTCCA
101 TCGCCCTGAT TTCATTGGTA GTCGGCGGCA TCGGCGTGAT GAACATCATG
151 CTGGTGTCCG TTACCGAGCG CACCAAAGAA ATCGGCATAC GGATGGCAAT
201 CGGCGCGCGG CGCGGCAATA TTTyGCAGCA GTTTTTGATT GAGGCGGTGT
251 TAATCTGCGT CATCGGCGGT TTGGTCGGCG TGGGTTTGTC CGCCGCCGTC

```
301   AGCCTCGTGT TCAATCATTT TGTAACCGAC TTCCGGATGG ACATTTCCGC
351   CATGTCCGTC ATCGGCGCGG TCGCCTGTTC GACCGGAATC GGCATCGCGT
401   TCGGCTTTAT GCCTGCCAAT AAAGCAGCCA AACTCAATCC GATAGACGCA
451   TTGGCACAGG ATTGA
```

Number 64 ORF

```
  1 ..GGGACGGGAG CGATGCTGCT GCTGTTTTAC GCGGTAACGA T.CTGCCTTT
 51   GGCCACTGGC GTTACCCTGA GTTACACCTC GTCGATTTTT TTGGCGGTAT
101   TTTCCTTCCT GATTTTGAAA GAACGGATTT CCGTTTACAC GCAGGCGGTG
151   CTGCTCCTTG GTTTTGCCGG CGTGGTATTG CTGCTTAATC CCTCGTTCCG
201   CAGCGGTCAG GAAACGGCGG CACTCGCCGG GCTGGCGGGC GGCGCGATGT
251   CCGGCTGGGC GTATTTGAAA GTGCGCGAAC TGTCTTTGGC GGGCGAACCC
301   GGCTGGCGCG TCGTGTTTTA CCTTTCCGTG ACAGGTGTGG CGATGTCGTC
351   GGTTTGGGCG ACGCTGACCG GCTGGCACAC CCTGTCCTTT CCATCGGCAG
401   TTTATCTGTC GTGCATCGGC GTGTCCGCGC TGATTGCCCA ACTGTCGATG
451   ACGCGCGCCT ACAAAGTCGG CGACAAATTC ACGGTTGCCT CGCTTTCCTA
501   TATGACCGTC GTTTTTTCCG CTCTGTCTGC CGCATTTTTT CTGGGCGAAG
551   AGCTTTTCTG GCAGGAAATA CTCGGTATGT GCATCATCAT CCTCAGCGGT
601   ATTTGA
```

Number 65 ORF

```
  1   ATGAAGCGGC GTATAGCCGT CTTCGTCCTG TTCCCGCAGA TAATCCGAGT
 51   TTTGGGACAA CTGTTGCCGA AAATCGTCAA TACAGTTCCG GCACATCGGA
101   TGCTCTTCCA GATTTTCGGG ATGTTCTTTT TCTTCATACA CCAGCAATAT
151   CTGCCCGGGA TCGCCGAAAT CGATTCCCCA TGCGGCATCG TGTTCGGTGC
201   GCTCCTCTTC CGTCATCTGC CCGCGCATTG CCTGTATGGT AAAGCCGCCG
251   TAGGGGATGC CgTTGCACAC GAACATCCAG TCGCTGATGT CGTCAACCGG
301   AACGCAAACG cTTTCGCCTT GTTCGACATT GGTCAGTTCG CCsGGTTCAT
351   TGTTCAGCAC ACCGTAAATA TAAAGACCGT CAAAATAAAT ATCGTCGATC
401   CACATATGTT CGCAAATTTC GCCGTCTTCG CCGTCTTGGA AAAAAGGGAC
451   TTTGACCATG GCAAAATCCA AGGCGGAAAT AATGCGGCGG CGTTCCCAAA
501   AAAGcTCGCG CCAAAAATAT TTGAATGTTT TACGGGCGCG TTCGTCGGCA
551   CGGTTTACCG GTTCGTCTGC CTGTTCTACA TAATAAATGA CGGAATCGCC
601   CATCATATCT GCTCCTCAAC GTGTACGGTA TCTGTTTGCA CCTTACTGCG
651   GCTTTCTgcC kTCGGCATCC GATTCGGATT TGAAAAGTTC mmrwyATTCG
701   GAATAG
```

Number 66 ORF

```
  1   ATGGAAAATA TGGTAACGTT TTCAAAAATC AGACCGCTTT TGGCAATCGC
 51   CGCCGCCGCG TTGCTTGCCG CC.TGCGGAC GGCGGGAAAT AATGCTGTCC
101   GCAAGCCGGT GCAAACCGCC AAACCCGCCG CAGTGGTCGG TTTGGCACTC
151   GGTGGCGGCG CATCTAAAGG ATTTGCCCAT GTAGGTATTA TTAAGGTTTT
201   GAAAGAAAAC GGTATTCCTG TGAAGGTGGT TACCGGCACC TCCGCAGGTT
251   CGATTGTCGG CAACCTTTTT GCATCGGGTA TGTCGCCCGA CCGCCTCGAA
301   TTGGAAGCCG AAATTTTAGG CAAAACCGAT TTGGTCGATT TAACCTTGTC
351   CACCAATGGG TTTATCAAAG GCGCAAAGCT GCAAAATTAC ATCAACCGAA
401   AACTCCGCGG CATGCAGATT CAGCAGTTTC CCATCAAATT TGCCGCC..
```

Number 67 ORF

```
  1   ATGTTTCGTT TACAATTCAG GCTGTTTCCC CCTTTGCGAA CCGCCATGCA
 51   CATCCTGTTG ACCGCCCTGC TCAAATGCCT CTCCCTGcTG CCGCTTTCCT
101   GTCTGCACAC GCTGGGAAAC CGGCTCGGAC ATCTGGCGTT TTACCTTTTA
151   AAGGAAGACC GCGCGCGCAT CGTCGCCmAT ATGCGGCAGG CGGGTTTGAA
201   CCCCGACCCC AAAACGGTCA AAGCCGTTTT TGCGGAAACG GCAAAAGGCG
251   GTTTGGAACT TGCCCCCGCG TTTTTCAGAA AACCGGAAGA CATAGAAACA
301   ATGTTCAAAG CGGTACACGG CTGGGAACAT GTGCAGCAGG CTTTGGACAA
351   ACACGAAGGG CTGCTATTC..
```

Number 68 ORF

```
  1  ..GCGTGGTCGG CCGGCGAATC GTGGCGTGTG TTAATGGAAA GTGAAACGTG
 51    GCATGCGGTG TGGAATACTT TGCGCTTCTC GGCGGCGGCG GTGTATGCGG
101    CAGCGGTTTT GGGTGTGGTG TATGCGGCGC CGGCGCGGCG GTCGGCGTGG
151    ATGCGCGGGC TGATGTTTTA GCCGTTTATG GTGTCGCCGG TTTGTGTTTC
201    GGCGGGCGTG CTGCTGCTTT ATCCGCAGTG GACGGCTTCG TTGCCGTTGC
251    TGCTGGCGAT GTATGCGCTG CTGGCGTATC CGTTTGTGGC AAAAGATGTT
301    TTATCAGCCT GGGATGCACT GCCGCCGGAT TACGGCAGGG CGGCGGCGGG
351    TTTGGGTGCA AACGGCTTTC AGACGGCATG CCGCATCACG TTCCCCCTCT
401    TGAAACCGGC GTTGCGGCGC GGTCTGACTT TGGCGGCGGC AACCTGCGTG
451    GGCGAATTTG CGGCGACATT GTTTCTGTCG CGTCCGGAAT GGCAGACGCT
501    GACGACTTTG ATTTATGCCT ATTTGGGACG CGCGGGTGAG GATAATTACG
551    CGCGGGCGAT GGTGCTG..
```

Number 69 ORF

```
  1  ATGGACGGCT GGACACAGAC GCTGTCCGCG CAAACCCTGT TGGGCATTTC
 51  GGCGGCGGCA ATCATCCTCA TTCTGATTTT AATCGTCAGA TTCCGCATCC
101  ACGCGCTGCT GACACTGGTC ATCGTCAGCC TGCTGACGGC TTTGGCAACC
151  GGTTTGCCCA CAGGCAGCAT TGTCAAAGAC ATACTGGTCA AAAACTTCGG
201  CGGCACGCTC GGCGGCGTGG CGCTTCTGGT CGGCCTGGGC GCGATGCTCG
251  AACGTTTGGT C...
```

Number 70 ORF

```
  1  ..GATTTCGGCA TATCGCCCGT GTATCTTTGG GTTGCCGCCG CGTTCAAACA
 51    TTTGCTGTCG CCGTGGGCTG CCGACTCATA CGATGTCGCA CGCTTTGCAG
101    GCGTATTTTT TGCCGTTATC GGACTGACTT CCTGCGGCTT TGCCGGTTTC
151    AACTTTTTGG GCAGACACCA CGGGCGCAC. GTCGTCCTGA TTCTCATCGG
201    CTGTATCGGG CTGATTCCAG TTGCCCATTT CCTCAACCCC GCTGCCGCCG
251    CCTTTGCCGC CGCCGGACTG GTGCTGCACG GTTATTCTTT GGCTCGCCGG
301    CGCGTGATTG CCGCCTCTTT TCTGCTCGGT ACGGGCTGGA CGCTGATGTC
351    GTTGGCAGCA GCTTATCCGG CAGCATTTGC CCTGATGCTG CCCTTGCCCG
401    TACTGATGTT TTTCCGTCCG ..
```

Number 71 ORF

```
  1  ..CAATCCGCCA AATGGTTATC GGGCCAAACT CTAGTCGGCA CAGCAATTGG
 51    GATACGCGGG CAGATAAAGC TTGGCGGCAA CCTGCATTAC GATATATTTA
101    CCGGCCGCGC ATTGAAAAAG CCCGAATTTT TCCAATCAAG GAAATGGGCA
151    AGCGGTTTTC AGGTAGGCTA TACGTTTTAA
```

Number 72 ORF

```
  1  ATGCGGACGA AATGGTCAGC AGTGAGAAGC TGCTTACTTG GgCGGACACC
 51  GCCGACATCG ATACCGCTTT GAACCTGTTG TACCGTTTGC AAAAACTCGA
101  ATTCCTCTAT GGCGATGAAA ACGGTCATTC AGACGGCATC AATTTGwCGG
151  ACGAGCAATT GCCGTTGCTG ATGGAACAAT TGTCCGGCAG CGGTAAGGCG
201  TTATTGGTCG ATCGGAACGG TCTGTATCTT GCCAACGCCA ATTTCCATCA
251  TGAGGCGGCG GAAGAGTTGG GGTTGTTGGC GGCAGAAGTC GCACAGATGG
301  AAAAGAAATA CCGGCTGCTG ATTAAGAACA AC..
```

Number 73 ORF

```
  1  ATGACCTTTT TACAACGTTT GCAAGGTTTG GCAGACAATA AAATCTGTGC
 51  GTTTGCATGG TTCGTCGTCC GCCGCTTTGA TGAAGAACGC GTACCGCAGr
```

101 CGGCGGCAAG CATGACGTTT ACGACGCTGC TGGCACTCGT CCCCGTGCTG
151 ACCGTGATGG TGGCGGTCGC TTCGATTTTC CCCGTGTTCG ACCGCTGGTC
201 GGATTCGTTC GTCTCCTTCG TCAACCAAAC CATTGTGCCG CA.GGCGCGG
251 ACATGGTGTT CGACTATATC AATGCGTTCC GCGAGCAGGC GAACCGGCTG
301 ACGGCAATCG GCAGCGTGAT GCTGGTCGTT ACCTCGCTGA TGCTGATTCG
351 GACGATAGAC AATACGTTCA ACCGCATCTG GaCGGGTCAA wTyCCAGCGT
401 CCGTGGATG..

Number 74 ORF

1 ..AGACACGCCC GCCGCATCCG CATCGACACC GCCATCAACC CCGAACTGGA
51 AGCCCTCGCC GAACACCTCC ACTACCAATG GCAGGGCTTC CTCTGGCTCA
101 GCACCGATAT GCGTCAGGAA ATTTCCGCCC TCGTCATCCT GCTGCAACGC
151 ACCCGCCGCA AATGGCTGGA TGCCCACGAA CGCCAACACC TGCGCCAAAG
201 CCTGCTTGAA ACACGGGAAC ACGGCTGA

Number 75 ORF

1 ..GCCGAAGACA CGCGCGTTAC CGCACAGCTT TTGAGCGCGT ACGGCATTCA
51 GGGCAAACTC GTCAGTGTGC GCGAACACAA CGAACGGCAG ATGGCGGACA
101 AGATTGTCGG CTATCTTTCA GACGGCATGG TTGTGGCACA GGTTTCCGAT
151 GCGGGTACGC CGGCCGTGTG CGACCCGGGC GCGAAACTCG CCCGCCGCGT
201 GCGTGAGGCC GGGTTTAAAG TCGTTCCCGT CGTGGGCGCA AC.GCGGTGA
251 TGGCGGCTTT GAGCGTGGCC GGTGTGGAAG GATCCGATTT TTATTTCAAC
301 GGTTTTGTAC CGCCGAAATC GGGAGAACGC AGGAAACTGT TTGCCAAATG
351 GGTGCGGGCG GCGTTTCCTA TCGTCATGTT TGAAACGCCG CACCGCATCG
401 GTGCAGCGCT TGCCGATATG GCGGAACTGT TCCCCGAACG CCGATTAATG
451 CTGGCGCGCG AAATTACGAA AACGTTTGAA ACGTTCTTAA GCGGCACGGT
501 TGGGGAAATT CAGACGGCAT TGTCTGCCGA CGGCGACCAA TCGCGCGGCG
551 AGATGGTGTT GGTGCTTTAT CCGGCGCAGG ATGAAAAACA CGAAGGCTTG
601 TCCGAGTCCG CGCAAAACAT CATGAAAATC CTCACAGCCG AGCTGCCGAC
651 CAAACAGGCG GCGGAGCTTG CTGCCAAAAT CACGGGCGAG GGAAAGAAAG
701 CTTTGTACGA T..

Number 76 ORF

1 ATGAAAACAA CCGACAAACG GACAACCGAA ACACACCGCA AAGCCCCGAA
51 AACCGGTCGC ATCCGCTTCT C.GCTGCTTA CTTAGCCATA TGCCTGTCGT
101 TCGGCATTCT TCCCCAAGCC TGGGCGGGAC ACACTTATTT CGGCATCAAC
151 TACCAATACT ATCGCGACTT TGCCGAAAAT AAAGGCAAGT TTGCAGTCGG
201 GGCGAAAGAT ATTGAGGTTT ACAACAAAAA AGGGGAGTTG GTCGGCAAAT
251 CAATGACAAA AGCCCCGATG ATTGATTTTT CTGTGGTGTC GCGTAACGGC
301 GTGGCGGcAT TGGTGGGCGt ATCAATATAT TGTGAGCGTG GCACATAACG
351 GCGGCTATAA CAACGTTGAT TTTGGTGCGG AAGGAAk.AA tATCCC.GAT
401 CAACAwCGww TTACTTATAA AATTGTGAAA CGGAATAATT ATAAAGCAGG
451 GACTAAAGGC CATCCTTATG GCGGCGATTA TCATATGCCG CGTTTGCATA
501 AATwTGTCAC AGATGCAGAA CCTGTTGAAA TGACCAGTTA TATGGATGGG
551 CGGAAATATA TCGATCAAAA TAATTACCCT GACCGTGTTC GTATTGGGGC
601 AGGCAGGCAA TATTGGCGAT CTGATGAAGA TGAGCCCAAT AACCGCGAAA
651 GTTCATATCA TATTGCAAGT ....
701 ....GGCTC ACCAATGTTT ATCTATGATG CCCAAAAGCA
751 AAAGTGGTTA ATTAATGGGG TATTGCAAAC GGGCAACCCC TATATAGGAA
801 AAAGCAATGG CTTCCAGCTG GTTCGTAAAG ATTGGTTCTA TGATGAAATC
851 TTTGCTGGAG ATACCCATTC AGTATTCTAC GAACCACGTC AAAATGGGAA
901 ATACTCTTTT AACGACGATA ATAATGGCAC AGGAAAAATC AATGCCAAAC
951 ATGAACACAA TTCTCTGCCT AATAGATTAA AAACACGAAC CGTTCAATTG
1001 TTTAATGTTT CTTTATCCGA GACAGCAAGA GAACCTGTTT ATCATGCTGC
1051 AGGTGGTGTC AACAGTTATC GACCCAGACT GAATAATGGA GAAAATATTT
1101 CCTTTATTGA CGAAGGAAAA GGCGAATTGA TACTTACCAG CAACATCAAT
1151 CAAGGTGCTG GAGGATTATA TTTCCAAGGA GATTTTACGG TCTCGCCTGA
1201 AAATAACGAA ACTTGGCAAG GCGCGGGCGT TCATATCAGT GAAGACAGTA
1251 CCGTTACTTG GAAAGTAAAC GGCGTGGCAA ACGACCGCCT GTCCAAAATC

```
1301  GGCAAAGGCA CGCTG..... .......... .......... ..........
                               //
2101  .......... .......... .......... .......... ...GATAAAG
2151  TGACTGCTTC ATTGACTAAG ACCGACATCA GCGGCAATGT CGATCTTGCC
2201  GATCACGCTC ATTTAAATCT CACAGGGCTT GCCACACTCA ACGGCAATCT
2251  TAGTGCAAAT GGCGATACAC GTTATACAGT CAGCCACAAC GCCACCCAAA
2301  ACGGCAACCk TAgCCtCGtG G.sAATGcCC AAGCAACATT TAATCAAGCC
2351  ACATTAAACG GCAACACATC GGCTTCgGGC AATGCTTCAT TTAATCTAAG
2401  CGACCACGCC GTACAAAACG GCAGTCTGAC GCTTTCCGGC AACGCTAAGG
2451  CAAACGTAAG CCATTCCGCA CTCAACGGTA ATGTCTCCCT AGCCGATAAG
2501  GCAGTATTCC ATTTTGAAAG CAGCCGCTTT ACCGGACAAA TCAGCGGCGG
2551  CAagGATACG GCATTACACT TAAAAGACAG CGAATGGACG CTGCCGTCAg
2601  GarCGGAATT AGGCAATTTA AACCTTGACA ACGCCACCAT TACaCTCAAT
2651  TCCGCCTATC GCCACGATGC GGCAGGGGCG CAAACCGGCA GTGCGACAGA
2701  TGCGCCGCGC CGCCGTTCGC GCCGTTCGCG CCGTTCCCTA TTATmCGTTA
2751  CACCGCCAAC TTCGGTAGAA TCCCGTTTCA ACACGCTGAC GGTAAACGGC
2801  AAATTGAACG GTCAGGGAAC ATTCCGCTTT ATGTCGGAAC TCTTCGGCTA
2851  CCGCAGCGAC AAATTGAAGC TGGCGGAAAG TTCCGAAGGC ACTTACACCT
2901  TGGCGGTCAA CAATACCGGC AACGAACCTG CAAGCCTCGA ACAATTGACG
2951  GTAGTGGAAG GAAAAGACAA CAAACCGCTG TCCGAAAACC TTAATTTCAC
3001  CCTGCAAAAC GAACACGTCG ATGCAGGCGC GTGG...... ..........
                               //
3551  .......... .......... .....TTAGAC CGCGTATTTG CCGAAGACCG
3601  CCGCAACGCC GTTTGGACAA GCGGCATCCG GGACACCAAA CACTACCGTT
3651  CGCAAGATTT CCGCGCCTAC CGCCAACAAA CCGACCTGCG CCAAATCGGT
3701  ATGCAGAAAA ACCTCGGCAG CGGGCGCGTC GGCATCCTGT TTTCGCACAA
3751  CCGGACCGAA AACACCTTCG ACGACGGCAT CGGCAACTCG GCACGGCTTG
3801  CCCACGGCGC CGTTTTCGGG CAATACGGCA TCGACAGGTT CTACATCGGC
3851  ATCAGnCGCG GGCGCGGGTT TTAGCAGCGG CAGCCTTTcA GACGGCATCG
3901  GAGsmAAAwT CCGCCGCCGC GTGCtGCATT ACGGCATTCA GGCACGAtAC
3951  CGCGCCGgtt tCggCGgATt CGGCATCGAA CCGCACATCG GCGCAACGCg
4001  ctATTTCGTC CAAAAAGCGG ATTACCGCTA CGAAAACGTC AATATCGCCA
4051  CCCCCGGCCT TGCATTCAAC CGCtACCGCG CGGGCATTAa GGCAGATTAT
4101  TCATTCAAAC CGGCGCAACA CATTTCCATC ACGCCTTATT TGAGCCTGTC
4151  CTATACCGAT GCCGCTTCGG GCAAAGTCCG AACACGCGTC AATACCGCCG
4201  TATTGGCTCA GGATTTCGGC AAAACCCGCA GTGCGGAATG GGgCGTAAAC
4251  GCCGAAATCA AAGGTTTCAC GCTGTCCCTC CACGCTGCCG CCGCCAAAGG
4301  CCCGCAACTG GAAGCGCAAC ACAGCGCGGG CATCAAATTA GGCTACCGCT
4351  GGTAA...
```

Number 77 ORF

```
  1  ..AAGGTGTGGC AATTTGTCGA AGA.CCGCTG CGTGGCGTCG TGCCTGCCGA
 51    CAGTTTTGAA CCGACCGCGC AAAAATTGAA CCTGTTTAAG GCGGGTGCGG
101    CAACCATTTT GTTTTATGAA GATCAAAATG TCGTCAAAGG TTTGCAGGAG
151    CAGTTCCCTG CTTATGCCGC TAACTTCCCC GTTTGGGCGg ATCAGGCAAA
201    CGCGATGGTG CAGTATGCCG TTTGGACGAC ACTTGCCGCG GTCGGCGTAG
251    GTGCAAACCT GCAACATTAC AATCCCTTGC CCGATGCGGC GATTGCCAAA
301    GCGTGGAATA TCCCCGAAAA CTGGTTGTTG CGCGCACAAA TGGTTATCGG
351    CGGTATTGAA GGGGCGGCAG GTGAAAAGAC CTTTGAACCC GTTGCAGAAC
401    GTTTGAAAGT GTTCGGCGCA TAA
```

Number 78 ORF

```
  1  ..GGCTACAACT ACCTGTTCGC GCGCGGCAGC CGCATCGCCA ACTACCAAAT
 51    CAACGGCATC CCCGTTGCCG ACGCGCTGGC CGATACGGGt CAATGCCAAC
101    ACCGCCGCCT ATGAGCGCGT AGAAGTCGTG CGCGGCGTGG CGGGGCTGCT
151    GGACGGCACG GGCGAGCCTT CCGCCACCGT CAATCTGGTG CGCAAACGCC
201    TGACCCGCAA GCCATTGTTT GAAGTCCGCG CCGAAGCgGG CAACCGCAAA
251    CATTTCGGGC TGGACGCGGA CGTATCGGGC AGCCTGAACA CCGAAG.crC
301    rCTGCGCgGC CGCCTGGTTT CCAcCTTCGG ACGCGGCGAC TCGTGGCGGC
351    GGCGCGAACG CAGCCGskAT GCCGAACTCT ACGGCATTTT GGAATACGAC
401    ATCGCACCGC AAACCCGCGT CCACGCArGC ATGGACTACC AGCAGGCGAA
```

```
451   AGAAACCGCC GACGCGCCGC TCAGcTACGC CGTGTACGAC AGCCAAGGTT
501   ATGCCACCGC CTTCGGCCCG AAAGACAACC CCGCCACAAA TTGGGCGAAC
551   AGCCACCACC GTGCGCTCAA CCTGTTCGCC GGCATCGAAC ACCGCTTCAA
601   CCAAGACTGG AAACTCAAAG CCGAATACGA CTAC..
```

Number 79 ORF

```
  1   ATGCGCACGG CAGTGGTTTT GCTGTTGATC ATGCCGATGG CGGCTTCGTC
 51   GGCAATGATG CCGGAAATGG TGTGCGCGGG CGTGTCGCCG GGAACGGCAA
101   TCATATCCAA GCCGACCGAA CAAACGGCGG TCATGGCTTC GAGTTTGTCC
151   AGCGTCAgcA CGCCTGCTTC GGCGgcGgCa ATCATACCTT CGTCTTCGGA
201   AACGGGGATA AACGcGCCAC TCAAACCCCC GACCGCGCTG GAAGCCATCA
251   TGCCGCCTTT TTTCACGGCA TCGTTCAGCA ATGCCAAAGC TGCTGTTGTG
301   CCGTGCGTAC CGCAGACGCT CAAGCCCATT TnTTCAAGAA TGCGTGCCAC
351   TnAGTCGCCG ACGGGG..
```

Number 80 ORF

```
  1   ..ACCGACGTGC AAAAAGAGTT GGTCGGCGAA CAACGCAAGT GGGCGCAGGA
 51     AAAAATCAGC AACTGCCGAC AAGCCGCCGC GCAGGCAGAC CGGCAGGAAT
101     ACGCCGAATA CCTCAAGCTG CAATGCGACA CGCGGATGAC GCGCGAACGG
151     ATACAGTATC TTCGCGGCTA TTCCATCGAT TAG
```

Number 81 ORF

```
   1   ATGCAGCTGA TCGACTATTC ACATTCATTT TTCTCGGTTG TGCCACCCTT
  51   TTTGGCACTG GCACTTGCCG TCATTACCCG CCGCGTACTG CTGTCTTTAG
 101   GCATCGGTAT TCTGGwysGC GTTGCCTTTT TGGTCGGCGG CAACCCCGTC
 151   GACGGTCTGA CACACCTGAA AGACATGGTC GTCGGCTTGG CTTGGTCAGA
 201   CGsyGATTGG TCGCTGGGCA AACCAAAAAT CTTGGTTTTC CkGATACTTT
 251   TGGGTATTTT TACTTCCCTG CTGACCTACT CCGGCAGCAA T.........
                                     //
 851   .......... .......... .......... ........AC TTCGCTGGTA
 901   TTCGGCGGCA CTTGCGGCGT CTTTGCCGTC GTTCTCTGCA CGCTCGGCAC
 951   GATTAAAACC GCCGACTATC CCAAAGCCGT TTGGCAGGGT GCGAAATCTA
1001   TGTTCGGCGC AATCGCCATT TTAATCCTCG CTTGGCTCAT CAGTACGGTT
1051   GTCGGCGAAA TGCACACCGG CGATTACCTC TCCACACTGG TTGCGGGCAA
1101   CATCCATCCC GGCTTCCTGC CCGTCATCCT CTTCCTGCTC GCCAGCGTGA
1151   TGGCGTTTGC CACAGGCACA AGCTGGGGGA CGTTCGGCAT TATGCTGCCG
1201   ATTGCCGCCG CCATGGCGGT CAAAGTCGAA CCCGCGCTGA TTATCCCGTG
1251   TATGTCCGCA GTAATGGCGG GGGCGGTATG CGGCGACCAC TGCTCGCCCA
1301   TTTCCGACAC GACCATCCTG TCGTCCACCG GCGCGCGCTG CAACCACATC
1351   GACCACGTTA CCTCGCAACT GCCTTACGCC TTAACCGTTG CCGCCGCCGC
1401   CGCATCGGGC TACCTCGCAT TGGGTCTGAC AAAATCCGCG CTGTTGGGCT
1451   TTGGCACGAC AGGCATTGTA TTGGCGGTGC TGATTTTTCT GTTGAAAGAT
1501   AAAAAA..
```

Number 82 ORF

```
  1   ..AAGCAATGGT ATGCCGACGN .AGTATCAAG ACGGAAATGG TTATGGTCAA
 51     CGATGAGCCT GCCAAAATTC TGACTTGGGA TGAAAGCGGC CGATTACTCT
101     CGGAACTGTC TATCCGCCAC CATCAACGCA ACGGGGTGGT TTTGGAGTGG
151     TATGAAGATG GTTCTAAAAA GAGCGAAGT. GTTTATCAGG ATGACAAGTT
201     GGTCAGGAAA ACCCAGTGGG ATAAGGATGG TTATTTAATC GAACCCTGA
```

Number 83 ORF

```
  1   ATGAAACAGA CAGTCAA.AT GCTTGCCGCC GCCCTGATTG CCTTGGGCTT
 51   GAACCGACCG GTGTGGNCGG ATGACGTATC GGATTTTCGG GAAAACTTGC
```

```
101  A.GCGGCAGC ACAGGGAAAT GCAGCAGCCC AATACAATTT GGGCGCAATG
151  TAT.TACAAA GGACGCGCGT GCGCCGGGAT GATGCTGAAG CGGTCAGATG
201  GTATCGGCAG CCGGCGGAAC AGGGGTTAGC CCAAGCCCAA TACAATTTGG
251  GCTGGATGTA TGCCAACGGG CGCGC.GTGC GCCAAGATGA TACCGAAGCG
301  GTCAGATGGT ATCGGCAGGC GGCAGCGCAG GGGGTTGTCC AAGCCCAATA
351  CAATTTGGGC GTGATATATG CCGAAGGACG TGGAGTGCGC CAAGACGATG
401  TCGAAGCGGT CAGATGGTTT CGGCAGGCGG CAGCGCAGGG GGTAGCCCAA
451  GCCCAAAACA ATTTGGGCGT GATGTATGCC GAAAGANCGC GCGTGCGCCA
501  AGACCG...
```

Number 84 ORF

```
  1  ATGAAATTTA CCAAGCACCC CGTCTGGGCA ATGGCGTTCC GCCCATTTTA
 51  TTCGCTGGCG GCTCTGTACG GCGCATTGTC CGTATTGCTG TGGGGTTTCG
101  GCTACACGGG AACGCACKAG CTGTCCGGTT TCTATTGGCA CGCGCATGAg
151  ATGATTTGGG GTTATGCCGG ACTGGTCGTC ATCGCCTTCC TGCTGACCGC
201  CGTCGCCACT TGGACGGGGC AGCCGCCCAC GCGGGGCGGC GTaTCTGGTC
251  GGCTTGACTA TCTTTTGGCT GGCTGCGCGG ATTGCCGCCT TTATCCCGGG
301  TTGGGGTGCG TCGGCAAGCG GCATACTCGG TACGCTGTTT TTCTGGTACG
351  GCGCGGTGTG CATGGCTTTG CCCGTTATCC GTTCGCAGAA TCAACGCAAC
401  TATGTTgCCG TGTTCGCGCT GTTCGTCTTG GGCGGCACGC ATGCGGCGTT
451  CCACGTCCAG CTGCACAACG GCAACCTAGG CGGACTCTTG AGCGGATTGC
501  AGTCGGGCTT GGTGATG
```

Number 85 ORF

```
  1  ..ATGCCGTCTG AAGGTTCAGA CGGCmTCGGT GyCGGGGAAy CAGAAGyGGT
 51    AGCGCATGCC CAATGAGACT TCGTGGGTTT TGAAGCGGGT GTTTTCCAAG
101    CGTCCCCAGT TGTGGTAACG GTATCCGGTG TCyAArGTCA GCTTGGGyGT
151    GATGTCGAAa CCGACACCGG CGATGACACC AAGACCyAmG CTGCTGATrC
201    TGTkGCTTTC GTGATAGGsA GGTTTGyTGG kmksAsyTTG TAyrATwkkG
251    CCTssCwsTG kAGmGCCkTk CkyTGGTkkA swGrwArTAG TCGTGGTTTy
301    TkTTyyCACC GAATGAACyT GATGTTTAAC GTGTCCGTAG GCGACGCGCG
351    CGCCGATATA GGGTTTGAAT TTATCGTTGA GTTTGAAATC GTAAATGGCG
401    GACAAGCCGA GAGAAGAAAC GGCGTGGAAG CTGCCGTTTC CCTGATGTTT
451    TGTTTGGGTT TCTTTGTAGT TGTTGTTTAT CTCTTCAGTA ACTTTTTTAG
501    TAGAAGAATT ACTTTCTTTC CATTTTCTGT AACTGGCATA ATCTGCCGCT
551    ATTCTCCAGC CGCCGAAATC ..
```

Number 86 ORF

```
  1  ATGTTTGCTT TTTTAGAAGC CTTTTTTGTC GAATACGGTT ATGCGGCTGT
 51  TTTTTTTGTA TTGGTCATCT GCGGTTTCGG CGTGCCGATT CCCGAGGATT
101  TGACCTTGGT AACAGGCGGC GTGATTTCGG GTATGGGTTA TACCAATCCG
151  CATATTATGT TTGCAGTCGG TATGCTCGGC GTATTGGTCG GGGACGGCAT
201  CATGTTCGCC GCCGGACGAA TTTGGGGGCA GArArTCCTA rGGTTCArAC
251  CTATTGCGsG CATCATGACG CCGrAACGTT ATGAGCAGGT TCAGGAAAAA
301  TTCGACAAAT ACGGTAACTG GGTCTTATTT GTCGCCCGTT TCCTGCCCGG
351  TTTGAGAACG GCCGTATTTG TTACAGCCGG TATCAGCCGC AAGGTTTCAT
401  ACTTGCGTTT TATCATTATG GATGGACTGG CCGCA...
```

Number 87 ORF

```
  1  ATGAAAAAAT TATTGGCGGC CGTGATGATG GCAGGTTTGG CAGGCGCGGT
 51  TTCCGCCGCC GGAGTCCACG TTGAGGACGG CTGGGCGCGC ACCACCGTCG
101  AAGGTATGAA AATAGGCGGC GCGTTCATGA AAATCCACAA CGACGAAGCC
151  AAACAAGACT TTTTGCTCGG CGGAAGCAGC CCCGTTGCCG ACCGCGTCGA
201  AGTGCATACC CACATCAACG ACAACGGCGT GATGCGGATG CGCGAAGTCG
251  AAGGCGGCGT GCCTTTGGAA GCGAAATCCG TTACCGAACT CAAACCCGGC
301  AGCTATCATG TGATGTTTAT GGGTTTGAAA AAACAATTAA AAGAGGGCGA
351  TAAAATTCCC GTTACCCTGA AATTTAAAAA CGCCAAAGCG CAAACCGTCC
```

401 AACTGGAAGT CAAAATGGCG CCGATGCCGG CAATGAACCA C...

Number 88 ORF

```
  1 ATGACGGTAA CTGCGGCCGA AGGCGGCAAA GCTGCCAAGG CGTTAAAAAA
 51 ATATCTGATT ACGGGCATTT TGGTCTGGCT GCCGATTGCG GTAACGGTTT
101 GGGTGGTTTC CTATATCGTT TCCGCGTCCG ATCAGCTCGT CAACCTGCTG
151 CCGAAGCAAT GGCGGCCGCA ATATGTTTTG GGGTTTAATA TCCCGGGGCT
201 GGGCGTTATC GTTGCCATTG CCGTATTGTT TGTAACCGGA TTGTTTGCCG
251 CCAACGTATT GGGTCGGCAG ATCCTCGCCG CGTGGGACAG CCTGTTGGGG
301 CGGATTCCGG TTGTGAAAtC CATCTATTCG AGTGTGAAAA AAGTATCCGA
351 ATacgTGCTG TCCGACAGCA GCCGTTCGTT TAAAACGCCG GTACTCGTGC
401 CGTTTCCCCA GCCCGGTATT TGGACGATyG CTTTCGTGTC AGGGCAGGTG
451 TCGAATGCGG TTAAGGCCGC ATTGCCGAAs GACGGCGATT ATCTTTCCGT
501 GTATGTTCCG ACCACGCCGA ATCCGACCGG CGGTTACTAT ATTATGGTAA
551 AGAAAAGCGA TGTGCGCGAA CTCGATATGA GCGTGGACGA AsCATTGAAA
601 TATGTGATTT CGCTGGGTAT GGTCATCCCT GACGACCTGC CCGTCAAAAC
651 ATTGGCAsGA CCTATGCCGT CTGAAAAGGC GGATTTGCCC GAACAACAAT
701 AA
```

Number 89 ORF

```
   1 ATgAAAACGG TAGTCTGGAT TGTCGTCCTG TTTGCCGCCG CCGTCGGACT
  51 GGCGCTGGCT TCGGGCATTT ACACCGGCGA CGTGTATATC GTACTCGGAC
 101 AGACCATGCT CAGAATCAAC CTGCACGCCT TTGTGTTAGG TTCGCTGATT
 151 GCCGTCGTGG TGTGGTATTT CTTGTTTAAA TTCATTATCG GsGgTACTCA
 201 ATATCCCCGA AAAGATGCAG CGTTTCGGTT CGGCnCGTAA AGGCCkCAAG
 251 ssCGsGCTTG CCTTGAACAA GGCGGGTTTG GCGTATTTTG AAGGGCGTTT
 301 TGAAAAGGCG GAACTAGAAG CCTCACGCGT GTTGGTCAAC AAAGtAGGCC
 351 GaGAGACAAC CGGACTTTGG CATTGATGCT GrGCGCGCAC GCCGCCGGAC
 401 AGATGGAAAA CATCGAssTG CGCGACCGTT ATCTTGCGGA AATCGCCAAA
 451 CTGCCGGAAA AACAGCAGCT TTCCCGTTAT CTTTTGTTGG CGGAATCGGC
 501 GTTGAACCGG CGCGATTACG AAGCGGCGGA AGCCAATCTT CATGCGGCGG
 551 CGAAGATGAA TGCCAACCTT ACGCGCCTCG TGCGTCTGCA .ATTCGTTAC
 601 GCTTTCGACA GGGGCGACGC GTTGCAGGTT CTGGCAAAAA CCGAAAAACT
 651 TTCCAAGGCG GGCGCGTTGG GCAAATCGGA AATGGAACGG TATCAAAATT
 701 GGGCATATCC GTCGCCAGCT GGCGGATGCT GCCGATGCCG CCGCTTTGAA
 751 AACCTGCCTG AAGCGGATTC CCGACAGCCT CAAAAACGGG GAATTGAGCG
 801 TATCGGTTGC GGAAAAGTAC GAACGTTTGG GACTGTATGC CGATGCGGTC
 851 AAATGGGTCA AACAGCATTA TCCGCAsAAC CGCCGCCCCG AGCTTTTGGA
 901 AGCCTTTGTC GAAAGCGTGC GCTTTTTGGG CGAGCGCGAA CAGCAGAAAG
 951 CCATCGATTT TGCCGATGCT TGGCTGAAAG AACAGCCCGA TAACGCGCTT
1001 CTGCTGATGT ATCTCGGTCG GCTCGCCTTC GGCCGCAAAC TTTGGGGCAA
1051 GGCAAAAGGC TACCTTGAAG CGAGCATTGC ATTAAAGCCG AGTATTTCCG
1101 CGCGTTTGGT TCTAACAAAG GTTTTCGACG AAATCGGAGA ACCGCAGAAG
1151 GCGGAGGCGC AC...
```

Number 90 ORF

```
  1 ATGATGTTTT CTTGGTTCAA GCTGTTTCAC TTGTTTTTTG TCATTTCGTG
 51 GTTTGCAGGG CTGTTTTACC TGCCGAGGAT TTTCGTCAAT ATGGCGATGA
101 TTGATGTGCC GCGCGGCAAT CCCGAGTATG TGCGTCTGTC GGGCATGGCG
151 GTGCGGCTGT ACCGTTTTAT GTCGCCGTTG GGCTTCGGCG CGGTCGTGTT
201 CGGCGCGGCG ATACCGTTTG CCGCCGGCTG GTGGGGCAGC GGCTGGGTAC
251 ACGTCAAACT GTGTTTGGGC TTGATGCTCT TGGCTTACCA GTTGTATTGC
301 GGCGTGCTGC TGCGCCGTTT TCAGGATTAC AGCAATGCTT TTTCACACCG
351 CTGGTACCGC GTGTTCAACG AAATCCCCGT GCTGCTGATG GTTGCCGCGC
401 TGTATsTGGT CGTGTTCAAA CCGTTTTGA
```

Number 91 ORF

```
  1  ATGGCAAAAA TGATGAAATG GGCGGCTGTT GCGGCGGTCG CGGCGGCAGC
 51  GGTTTGGGGC GGATGGTCTT AACTGAAGCC CGAGCCGCAC GTGCTTGATA
101  TTACGGAAAC GGTCAGGCGC GGC // .....
//.. ATTTCGTTTA CGATTTTGTC CGAACCGGAT ACGCCGATTA AGGCGAAGCT
 51  CGACAGCGTC GACCCCGGGC TGACCACGAT GTCGTCGGGC GGTTACAACA
101  GCAGTACGGA TACGGCTTCC AATGCGGTCT ACTATTATGC CCGTTCGTTT
151  GTGCCGAATC CGGACGGCAA ACTCGCCACG GGGATGACGA CGCAGAATAC
201  GGTTGAAATC GACGGCGTGA AAAATGTGCT GATTATTCCG TCGCTGACCG
251  TGAAAAATCG CGGCGGCAAG GCGTTTGTGC GCGTGTTGGG TGCGGACGGC
301  AAGGCGGCGG AACGCGAAAT CCGGACCGGT ATGAGAGACA GTATGAATAC
351  CGAAGTAAAA AGCGGGTTGA AAGAGGGGGA CAAAGTGGTC ATCTCCGAAA
401  TAACCGCCGC CGAGCAACAG GAAAGCGGCG AACGCGCCCT AGGCGGCCCG
451  CCGCGCCGAT AA
```

Number 92 ORF

```
  1  ..ATTCCCGCCA CGATGACATT TGAACGCAGC GGCAATGCTT ACAAAATCGT
 51    TTCGACGATT AAAGTGCCGC TATACAATAT CCGTTTCGAG TCCGGCGGTA
101    CGGTTGTCGG CAATACCCTG CACCCTACCT ACTATAGAGA CATACGCAGG
151    GGCAAACTGT ATGCGGAAgc CAAATTCGCC GACgGcAGCG TAACTTACGG
201    CAAAGCGGGC GAGAGCAAAA CCGAGCAAAG CCCCAAGGCT ATGGATTTGT
251    TCACGCTTGC CTGGCAGTTG GCGGCAAATG ACGCGAAACT CCCCCCGGGG
301    CTGAAAATCA CCAACGGCAA AAAACTTTAT TCCGTCGGCG GTTTGAATAA
351    GGCGGGTACA GGAAAATACA GCATAGGCGG CGTGGAAACC GAAGTCGTCA
401    AATATCGGGT GCGGCGCGGC GACGATGCGG TAATGTATTT cTTCGCACCG
451    TCCCTGAACA ATATTCCGGC ACAAATCGGC TATACCGACG ACGGCAAAAC
501    CTATACGCTG AAACTCAAAT CGGTGCAGAT CAACGGCCAG GCAGCCAAAC
551    CGTAA
```

Number 93 ORF

```
  1  ATGTATCGGA GGAAAGGGCG GGGCATCAAG CCGTGGATGG GTGCCGGTGC
 51  .GCGTTTGCC GCCTTGGTCT GGCTGGTTTT CGCGCTCGGC GATACTTTGA
101  CTCCGTTTGC GGTTGCGGCG GTGCTGGCGT ATGTATTGGA CCCTTTGGTC
151  GAATGGTTGC AGAAAAAGGG TTTGAACCGT GCATCCGCTT CGATGTCTGT
201  GATGGTGTTT TCCTTGATTT TGTTGTTGGC ATTATTGTTG ATTATCGTCC
251  CTATGCTGGT CGGGCAGTTC AACAATTTGG CATCGCGCCT GCCCCAATTA
301  ATCGGTTTTA TGCAGAACAC GCTGCTGCCG TGGTTGAAAA ATACAATCGG
351  CGGATATGTG GAAATCGATC AGGCATCTAT TATTGCGTGG CTTCAGGCGC
401  ATACGGGAGA GTTGAGCAAC GCGCTTAAGG CGTGGTTTCC CGTTTTGATG
451  AGGCAGGGCG GCAATATT..
```

Number 94 ORF

```
  1  ..ACTGCTTTTT CGGCGGCGCT GCGCTTGAGT CCATCATGAC TCGTCATATT
 51    TTTGTCCTTT GGGAAACCGT ATCAACAAAC AGCCGCCATC TTAACATTTT
101    TTTGCACGTC CTGCCCGCCG CGTTCAAATG CGTACCAGCA ATACCGCCGC
151    CTGCGCCTCT ATGCCTTCCA TCCGCCCGAG ATAGCCGAGT TTTTCGTTGG
201    TTTTGCCTTT GATGTTGACG CACGAAATGT CTATGCCCAA ATCGGCGGCG
251    ATGTTGGCAC GCATTTGCGG AATGTGCGGC GCGAGTGTGG GTTTCTGTGC
301    AATCACGGTC GTATCGACAT TGACCGCCTG CCAACCCTGC GCCTGAACGC
351    TTTGATACGC CGCACGCAAA AGGACGCGGC TGTCCGCATC TTTGAACTCT
401    GCGGCGGTGT CGGGGAAATG GCTGCCGATA TCGCCCAAAC CTGCCGCACC
451    GAGCAGCGCG TCGGTAACGG CGTGCAGCAG CGCATCGGCA TCGGAGTGTC
501    CGAGCAGCCC TTTTTCAAAT GGGATTTCAA CTCCGCCAAG TATCAG..
```

Number 95 ORF

```
  1  ..GCCGGCGCGA GTGCGAACAA CATTTCCGCG CGTTTTGCGG AAACACCCGT
```

```
 51   CGCTGTCAGC GTTACCCTGA TCGGCACGGT ACTTGCCGTC ATGCTGCCCG
101   TTACCGAATA TGAAAACTTC CTGCTGCTTA TCGGCTCGGT ATTTGCGCCG
151   ATGGGGCGGA TTTTGATTGC CGACTTTTTC GTCTTGAAAC GGCGTGA
```

Number 96 ORF

```
  1   ATGACCCGTA TCGCCATCCT CGGCGGCGGC CTCTCGGGAA GGCTGACCGC
 51   GTTGCAGCTT GCAGAACAAG GTTATCAGAT TGCACTTTTC GATAAAAGCT
101   GCCGCCGGGG CGAACACGCC GCCGCCTATG TAGCCGCCGC CATGCTCGCG
151   CCTGCAGCGG A.ACGGTCGA AGCCACGCCC GAAGTGGTCA GGCTGGGCAG
201   GCAGAGCATC CCGCTTTGGC GCGGCATCCG ATGCCGTCTG AACACGCACA
251   CGATGATGCA GGAAAACGGC AGCCTGATTG TATGGCACGG GCAGGACAAG
301   CCATTATCCA GCGAGTTCGT CCGCCATCTC AAACGCGGCG GCGT.ACGGA
351   TGACGAAATC GTCCGTTGGC GCGCCGACGA CATCGCCGAA CGCGAACCGC
401   AACTCGGCGG ACGTTTTTAA GACGGCATCT ACCTGCCGAC CGAAGC.CAG
451   CTCGACGGGC GGCAATTATA GTCTGCACTT GCCGACGCTT TGGACGAACT
501   GAACGTCCCC TGCCATTGGG AACACGAATG CGTCCCCGAA GCCTGCAAG..
```

Number 97 ORF

```
  1   ATGACTGATA ATCGGGGGTT TACGCTGGTT GAATTAATAT CAGTGGTCTT
 51   GATATTGTCT GTACTTGCTT TAATTGTTTA TCCGAGCTAT CGCAATTATG
101   TTGAGAAAGC AAAGATAAAT GCAGTGCGGG CAGCCTTGTT AGAAAATGCA
151   CATTTTATGG AAAAGTTTTA TCTGCAGAAT GGGAGGTTTA AACAAACATC
201   TACCAAGTGG CCAAGTTTGC CGATTAAAGA GGCAGAAGGC TTTTGTATCC
251   GTTTGAATGG AATCGtCGCG CGGG..GCTT TAGACAGTAA ATTCATGTTG
301   AAGGCGGTAG CCATAGATAA AGATAAAAAT CCTTTTATTA TTAAGATGAA
351   TGAAAATCTA GTAACCTTTA aTTTGCAAGA AGTCCGCCAG TTCGTGTAGT
401   GACGGGCTGG ATTATTTTAA AGGAAATGAT AAGGACTGCA AGTTACTTAA
451   GTAG
```

Number 98 ORF

```
  1 ..GTGTCGCTGG CTTCGGTGAT TGCCTCTCAA ATCTTCCTTT ACGAAGATTT
 51   CAACCAAATG CGGAAAACCC GTGGAGCTAT CTGCGGTTTT CTTGTCCAAT
101   ATTTATCTGG GGTTTCAGCA GGGGTATTTC GATTTGAGTG CCGACGAGAA
151   CCCCGTACTG CATATCTGGT CTTTGGCAGT AGAGGAACAG TATTACCTCC
201   TGTATCCCCT TTTGCTGATA TTTTGCTGCA AAAAAACCAA ATCGCTACGG
251   GTGCTGCGTA ACATCAGCAT CATCCTGTTT TTGATTTTGA CTGCCTCATC
301   GTTTTTGCCA AGCGGGTTTT ATACCGACAT CCTCAACCAA CCCAATACTT
351   ATTACCTTTC GACACTGAGG TTTCCCGAGC TGTTGGCAGG TTCGCTGCTG
401   GCGGTTTACG GGCAAACGCA AAACGGCAGA CGGCAAACAG CAAATGGAAA
451   ACGGCAGTTG CTTTCATCAC TCTGCTTCGG CGCATTGCTT GCCTGCCTGT
501   TCGTGATTGA CAAACACAAT CCGTTTATCC CGGGAATGAC CCTGCTCCTT
551   CCCTGCCTGC TGACGGCACT GCTTATCCGG AGTATGCAAT ACGGGACACT
601   TCCGACCCGC ATCCTGTCGG CAAGCCCCAT CGTATTTGTC GGCAAAATCT
651   CTTATTCCCT ATACCTGTAC CATTGGATTT TTATTGCTTT CGCTCCGCTC
701   ATTAGAGGCG GGAAACAGCT CGGACTGCCT GCCG..
```

Number 99 ORF

```
  1 ..ATTATTTACG AATACCGCTG GATGTTTCTT TACGGCGCAC TGACGACCTT
 51   GGGGCTGACG GTCGTGGCAA C.GCGGGCGG TTCGGTATTG GGTCTGTTGT
101   TGGCGTTGGC GCGCCTGATT CACTTGGAAA AAGCCGGTGC GCCGATGCGC
151   GTGCTGGCGT GGGCGTTGCG TAAAGTTTCG CTGCTGTATG TTACGCTGTT
201   CCGGGGTACG CCGCTGTTTG TGCAGATTGT GATTTGGGCG TATGTGTGGT
251   TTCCGTTTTT CGTC..
```

Number 100 ORF

1 ..CTGAAAGAAT GCCGTCTGAA AGACCCTGTT TTTATTCCAA ATATCGTTTA
51 TAAGAACATC GCCATTACTT TCCTGCTCTT GCACGCCGCC GCCGAACTTT
101 GGCTGCCCGC GCAAACCGCC GGTTTTACCG CGCTCGCCGT CGGCTTCATC
151 CTGCTCGCCA AGCTGCGTGA gCTTCACCAT CACGAACTCT TACGTAAACA
201 cTACGTCCGC ACTTATTACy TGCTCCAACT CTTTGCCGCC GCAGgcTAgT
251 TTGTGGACAG GCGCGGCGwA ATTACAAAAC CTGCCCGCyT CCGCGCCCCT
301 GCACCTGATT ACCCTCGGCG GCATGATGGG CGGCGTGATG ATGGTGTGGc
351 TGACCGCCGG ACTGTGGCAC AGCGGCTTTA CCAAACTCGA CTACCCCAAA
401 CTCTGCCGCA TTGCCGTCCC CATCCTTTTC GCCGCCGCCG TCTCGCGCGC
451 TTTCTTGrTG AACGTGAACC CGrTATTTTT CATTACCGTT CCTGCGATTC
501 TGACCGCCGC CGTATTCGTA CTGTATCTTT TCrCGTTTAT ACCGATATTT
551 CGGGCGAATG CGTTTACAGA CGATCCGGAr TAr

Number 101 ORF

1 ATGGAAATTC GGGCAATAAA ATATACGGCA ATGGCTGCGT TGCTTGCATT
51 TACGGTTGCA GGCTGCCGGC TGGCGGGGTG GTATGAGTGT TCGTCCCTCA
101 CCGGCTGGTG TAAGCCGAGA AAACCGGCTG CCATCGATTT TTGGGATATT
151 GGCGGCGAGA GTCCGCCGTC TTTAGGGGAC TACGAGATAC CGCTTTCAGA
201 CGGCAATAGT TCCGTCAGGG CAAACGAATA TGAATCCGCA CAACAATCTT
251 ACTTTTACAG GAAAATAGGG AAGTTTGAAG C.TGCGGGCT GGATTGGCGT
301 ACGCGTGACG GCAAACCTTT GATTGAGACG TTCAAACAGG GAGGATTTGA
351 CTGCTTGGAA AAG..

Number 102 ORF

1 ATGAAACACA TCCATATTAT CGGTATCGGC GGCACGTTTA TGGGCGGGCT
51 TGCCGCCATT GCCAAAGAAG CGGGGTTTGA AGTCAGCGGT TGCGACGCGA
101 AGATGTATCC GCCGATGAGC ACCCAGCTCG AAGCCTTGGG TATAGACGTG
151 TATGAAGGCT TCGATGCCGC TCAGTTGGAC GAATTTAAAG CCGACGTTTA
201 CGTTATCGGC AATGTCGCCA AGCGCGGGAT GGATGTGGTT GAAGCGATTT
251 TGAACCTCGG CCTGCCtTAT ATtTcCGGCC CGCAATGGCT GTCGGAAAAC
301 GTGCTGCACC ATCATTGGGT ACTCGGTGTG GCGGGGACgC ACGGCAAAAC
351 GACCACCGCC TCCATGCTCG CATGGGTCTT GGAATATgCC GGCCTCGCGC
401 CGGGCTTCCT TATtGGCGGC GTACC.GGAA AATttCGGCG TTTCCGCCCG
451 CCTGCCGCAA ACGCCGCGCC AAGACCCGAA CAGCCAATCG CCGTTTTTcG
501 TCATCGAAGC CGACGAATAC GACACCGCCT TTtTCGACAA ACGTTCTAAA
551 TtCGTGCATT ACCGTCCGCG TACCGCCGTG TTGAACAATC TGGAATTCGA
601 CCACGCCGAC ATCTTTGCCG ACTTGGGCGC GATACAGACc CAGTTCCACT
651 ACCTCGTGCG TACCGTGCCG TCTGAAGGCT TAATCGTCTG CAACGGACGG
701 CAGCAAAGCC TGCAAGATAC TTTGGACAAA GGCTGCTGGA CGCCGGTGGA
751 AAAATTCGGC ACGGAACACG GCTGGCA..

Number 103 ORF

1 ..CCGGGCTATT ACGGCTCGGA TGACGAATTT AAGCGGGCAT TCGGAGAAAA
51 CTCGCCGACA TmCAAGAAAC ATTGCAACCG GAGCTGCGGG ATTTATGAAC
101 CCGTATTGAA AAAATACGGC AAAAAGCGCG CCAACAACCA TTCGGTCAGC
151 ATTAGTGCGG ACTTCGGCGA TTATTTCATG CCGTTCGCCA GCTATTCGCG
201 CACACACCGT ATGCCCAACA TCCAAGAAAT GTATTTTTCC CAAATCGGCG
251 ACTCCGGCGT TCACACCGCC TTAAAACCAG AGCGCGCAAA CACTTGGCAA
301 TTTGGCTTCr ATACCTATAA AAAAGGATTG TTAAAACAAG ATGATACATT
351 AGGATTAAAA CTGGTCGGCT ACCGCAGCCG CATCGACAAC TACATCCACA
401 ACGTTTACGG GAAATGGTGG GATTTGAACG GGGATATTCC GAGCTGGGTC
451 AGCAGCACCG GGCTTGCCTA CACCATCCAA CATCGCrATT TCAwAGACAA
501 AGTGCATCAA nnnnnnnnnn nnnnnnnnnn nnnnTACGAT TATGGGCGTT
551 TTTTCACCAA CCTTTCTTAC GCCTATCAAA AAAGCACGCA ACCGACCAAC
601 TTCAGCGATG CGAGCGAATC GCCCAACAAT GCGTCCAAAG AAGACCAACT
651 CAAACAAGGT TATGGGTTGA GCAGGGTTTC CGCCCTGCCG CGAGATTACG
701 GACGTTTGGA AGTCGGTACG CGCTGGTTGG GCAACAAACT GACTTTGGGC

751 GGCGCGATGC GCTATTTCGG CAAGAGCATC CGCGCGACGG CTGAAGAACG
801 CTATATCGAC GGCACCAACG GGGGAAATAC CAGCAATTTC CGGCAACTGG
851 GCAAGCGTTC CATCAAACAA ACCGAAACTC TTGCCCGCCA GCCTTTGATT
901 TTwGATTTTa ACGCCGCTTA CGAGCCGAAG AAAAACCTTA TTTTCCGCGC
951 CGAAGTCAAA AATCTGTTCG ACAGGCGTTA TATCGATCCG CTCGATGCGG
1001 GCAATGATGC GGCAAC.GAG CGTTATTACA GCTCGTTCGA CCCGAAAGAC
1051 AAGGACrrAG ACGTAACGTG TAATGCTGAT AAAACGTTGT GCaACGGCAA
1101 ATACGGCGGC ACAAGCAAAA GCGTATTGAC CAATTTTGCA CGCGGACGCA
1151 CCTTTTTgAT GACGATGAGC TACAAGTTTT AA

Number 104 ORF

1 ATGAACCTGA TTTCACGTTA CATCATCCGT CAAATGGCGG TTATGGCGGT
51 TTACGCGCTC CTTGCCTTCC TCGCTTTGTA CAGCTTTTTT GAAATCCTGT
101 ACGAAACCGG CAACCTCGGC AAAGGCAGTT ACGGCATATG GGAAATGCTG
151 GGCTACACCG CCCTCAAAAT GCCCGCCCGC GCCTACGAAC TGATTCCCCT
201 CGCCGTCCTT ATCGGCGGAC TGGTCTCCCT CAGCCAGCTT GCCGCCGGCA
251 GCGAACTGAC CGTCATCAAA GCCAGCGGCA TGAGCACCAA AAAGCTGCTG
301 TTGATTCTGT CGCAGTTCGG TTTTATTTTT GCTATTGCCA CCGTCGCGCT
351 CGGCGAATGG GTTGCGCCCA CACTGAGCCA AAAAGCCGAA AACATCAAAG
401 CCGCCGCCAT CAACGGCAAA ATCAGCACCG GCAATACCGG CCTTTGGCTG
451 AAAGAAAAAA ACAGCGTGAT CAATGTGCGC GAAATGTTGC CCGACCAT..

Number 105 ORF

1 ATGAAACTTC TGACCACCGC AATCCTGTCT TCCGCAATCG CGCTCAGCAG
51 TATGGCTGCC GCCGCTGGCA CGGACAACCC CACTGTTGCA AAAAAAACCG
101 TCAGCTACGT CTGCCAGCAA GGTAAAAAAG TCAAAGTAAC CTACGGCTTC
151 AACAAACAGG GTCTGACCAC ATACGCTTCC GCCGTCATCA ACGGCAAACG
201 CGTGCAAATG CCTGTCAATT TGGACAAATC CGACAATGTG GAAACATTCT
251 ACGGCAAAGA AGGCGGTTAT GTTTTGGGTA CCGGCGTGAT GGATGGCAAA
301 TCCTACCGCA AACAGCCCAT TATGATTACC GCACCTGACA ACCAAATCGT
351 CTTCAAAGAC TGTTCCCCAC GTTAA

Number 106 ORF

1 ..ACACTGTTGT TTGCAACGGT TCAGGCAAGT GCTAACCAAT GAAGAGCAAG
51 AAGAAGATTT ATATTTAGAC CCCGTACAAC GCACTGTTGC CGTGTTGATA
101 GTCAATTCCG ATAAAGAAGG CACGGGAGAA AAAGAAAAAG TAGAAGAAAA
151 TTCAGATTGG GCAGTATATT TCAACGAGAA AGGAGTACTA ACAGCCAGAG
201 AAATCACCyT CAAAGCCGGC GACAACCTGA AAATCAAACA AAACGGCACA
251 AACTTCACCT ACTCGCTGAA AAAAGACCTC AcAGATCTGA CCAGTGTTGG
301 AACTGAAAAA TTATCGTTTA GCGCAAACGG CAATAAAGTC AACATcACAA
351 GCGACACCAA AGGCTTGAAT TTTGCGAAAG AAACGGCTGG sACGAACGgC
401 GACACCACGG TTCATCTGAA CGGTATTGGT TCGACTTTGA CCGATACGCT
451 GCTGAATACC GGAGCGACCA CAAACGTAAC CAACGACAAC GTTACCGATG
501 ACGAGAAAAA ACGTGCGGCA AGCGTTAAAG ACGTATTAAA CGCTGGCTGG
551 AACATTAAAG GCGTTAAACC CGGTACAACA GCTTCCGATA ACGTTGATTT
601 CGTCCGCACT TACGACACAG TCGAGTTCTT GAGCGCAGAT ACGAAAACAA
651 CGACTGTTAA TGTGGAAAGC AAAGACAACG GCAAGAAAAC CGAAGTTAAA
701 ATCGGTGCGA AGACTTCTGT TATTAAAGAA AAAGAC...

Number 107 ORF

1 ..GGCACCGAAT TCAAAACCAC CCTTTCCGGA GCCGACATAC AGGCAGGGGT
51 GGGTGAAAAA GCCCGAGCCG ATGCGAAAAT TATCCTAAAA GGCATCGTTA
101 ACCGCATCCA AACCGAAGAA AAGCTGGAAT CCAACTCGAC CGTATGGCAA
151 AAGCAGGCCG GAAGCGGCAG CACGGTTGAA ACGCTGAAGC TACCGAGCTT
201 TGAAGGGCCG GCACTGCCTA AGCTGACCGC TCCCGGCGGC TATATCGCCG
251 ACATCCCCAA AGGCAACCTC AAAACCGAAA TCGAAAAGCT GGCCAAACAG
301 CCCGAATATG CCTATCTGAA ACAGCTTCAG ACGGTCAAGG ACGTGAACTG

```
351     GAACCAAGTA CAGCTCGCTT ACGACAAATG GGACTATAAA CAGGAAGGCC
401     TAACCGGAGC CGGAGCCGCA ATTANCGCAC TGGCCGTTAC CGTGGTCACC
451     TCAGGCGCAG GAACCGGAGC CGTATTGGGA TTAANACGNG TGGCCGCCGC
501     CGCAACCGAT GCAGCATTT...
```

Number 108 ORF

```
  1   ..CGGATCGTTG TAGGTTTGCG GATTTCTTGC GCCGTAGTCA CCGTAGTCCC
 51     AAGTATAACC CAAGGCTTTG TCTTCGCCTT TCATTCCGAT AAGGGATATG
101     ACGCTTTGGT CGGTATAGCC GTCTTGGGAA CCTTTGTCCA CCCAACGCAT
151     ATCTGCCTGC GGATTCTCAT TGCCGCTTCT TGGCTGCTGA TTTTTCTGCC
201     TTCGCGTTTT TCAACTTCGC GCTTGAGGGC TTCGGCATAT TTGTCGGCCA
251     ACGCCATTTC TTTCGGATGC AGCTGCCTAT TGTTCCAATC TACATTCGCA
301     CCCACCACAG CACCACCACT ACCACCAGTT GCATAG
```

Number 109 ORF

```
   1   ..AAGTTTGACT TTACCTGGTT TATTCCGGCG GTAATCAAAT ACCGCCGGTT
  51     GTTTTTTGAA GTATTGGTGG TGTCGGTGGT GTTGCAGCTG TTTGCGCTGA
 101     TTACGCCTCT GTTTTTCCAA GTGGTGATGG ACAAGGTGCT GGTACATCGG
 151     GGATTCTCTA CTTTGGATGT GGTGTCGGTG GCTTTGTTGG TGGTGTCGCT
 201     GTTTGAGATT GTGTTGGGCG GTTTGCGGAC GTATCTGTTT GCACATACGA
 251     CTTCACGTAT TGATGTGGAA TTGGGCGCGC GTTTGTTCCG GCATCTGCTT
 301     TCCCTGCCTT TATCCTATTT CGAGCACAGA CGAGTGGGTG ATACGGTGGC
 351     TCGGGTGCGG GAATTGGAGC AGATTCGCAA TTTCTTGACC GGTCAGGCGC
 401     TGACTTCGGT GTTGGATTTG GCGTTTTCGT TTATCTTTCT GGCGGTGATG
 451     TGGTATTACA GCTCCACTCT GACTTGGGTG GTATTGGCTT CGTTG.....
                                    //
1451     .......... .......... .......... .......... ..........
1501     .......... .......... .......... .......... ..ATTTGCGC
1551     CAACCGGACG GTGCTGATTA TCGCCCACCG TCTGTCCACT GTTAAAACGG
1601     CACACCGGAT CATTGCCATG GATAAAGGCA GGATTGTGGA AGCGGGAACA
1651     CAGCAGGAAT TGCTGGCGAA CG..AACGGA TATTACCGCT ATCTGTATGA
1701     TTTACAGAAC GGGTAG
```

Number 110 ORF

```
  1   ATGAAATACT TGATCCGCAC CGCCTTACTC GCAGTCGCAG CCGCCGGCAT
 51   CTACGCCTGC CAACCGCAAT CCGAAGCCGC AGTGCAAGTC AAGGCTGAAA
101   ACAGCCTGAC CGCTATGCGC TTAGCCGTCG CCGACAAACA GGCAGAGATT
151   GACGGGTTGA ACGCCCAAAk sGACGCCGAA ATCAGA...
```

Number 111 ORF

```
  1   ATGGTTATCG GAATATTACT CGCATCAAGC AAGCATGCTC TTGTCATTAC
 51   TCTATTGTTA AATCCCGTCT TCCATGCATC CAGTTGCGTA TCGCGTTsGG
101   CAATACGGAA TAAAAtCTGC TGTTCTGCTT TGGCTAAATT TGCCAAATTG
151   TTTATTGTTT CTTTAGGaGC AGCTTGCTTA GCCGCCTTCG CTTTCGACAA
201   CGCCCCCACA GGCGCTTCCC AAGCgTTGCC TACCGTTACC GCACCCGTGG
251   CGATTCCCGC GCCCGCTTCG GCAGCCTGA
```

Number 112 ORF

```
  1   ATGTTCAGTA TTTTAAATGT GTTTCTTCAT TGTATTCTGG CTTGTGTAGT
 51   CTCTGGTGAG ACGCCTACTA TATTTGGTAT CCTTGCTCTT TTTTACTTAT
101   TGTATCTTTC TTATCTTGCT GTTTTTAAGA TTTTCTTTTC TTTTTTCTTA
151   GACAGAGTTT CACTCCGGTC TCCCAGGCTG GAGTGCAAAT GGCATGACCC
201   TTTGGCTCAC TGGCTCACGG CCACTTCTGC TATTCTGCCG CCTCAGCCTC
251   CAGGG...
```

Number 113 ORF

```
  1  ..GTGCGGACGT GGTTGGTTTT TTGGTTGCAG CGTTTGAAAT ACCCGTTGTT
 51    GCTTTGGATT GCGGATATGT TGCTGTACCG GTTGTTGGGC GGCGCGGAAA
101    TCGAATGCGG CCGTTGCCCT GTGCCGCCGA TGACGGATTG GCAGCATTTT
151    TTGCCGGCGA TGGGAACGGT GTCGGCTTGG GTGGCGGTGA TTTGGGCATA
201    CCTGATGATT GAAAGTGAAA AAAACGGAAG ATATTGA
```

Number 114 ORF

```
  1  ATGTTTCAAA ATTTTGATTT GGGCGTGTTC CTGCTTGCCG TCCTCCCCGT
 51  GCTGCCCTCC ATTACCGTCT CGCACGTGGC GCGCGGCTAT ACGGCGCGCT
101  ACTGGGGAGA CAACACTGCC GAACAATACG GCAGGCTGAC ACTGAACCCC
151  CTGCCCCATA TCGATTTGGT CGGCACAATC ATCgTACCGC TGCTTACTTT
201  GATGTTCACG CCCTTCCTGT TCGGCTGGGC GCGTCCGATT CCTATCGATT
251  CGCGCAACTT CCGCAACCCG cGCCTTGCCT GGCGTTGCGT TGCCGCGTCC
301  GGCCCGCTGT CGAATCTAGC GATGGCTGTw CTGTGGGGCG TGGTTTTGGT
351  GCTGACTCCG TATGTCGGCG GGGCGTATCA GATGCCGTTG GCTCAAATGG
401  CAAACTACGG TATTCTGATC AATGCGATTC TGTTCGCGCT CAACATCATC
451  CCCATCCTGC CTTGGGACGG CGGCATTTTC ATCGACACCT TCCTGTCGGC
501  GAAATATTCG CAAGCGTTCC GCAAAATCGA ACCTTATGGG ACGTGGATTA
551  TCCTACTGCT GATGCTGACC sGGGTTTTGG GTGCGTTTAT wGCACCGATT
601  sTGCGGmTGc GTGATTGCrT TTGTGCAGAT GTwCGTCTGA CTGGCTTTCA
651  GACGGCATAA
```

Number 115 ORF

```
  1  ATGAACCTGA TTTCACGTTA CATCATCCGT CAAATGGCGG TTATGGCGGT
 51  TTACGCGCTC CTTGCCTTCC TCGCTTTGTA CAGCTTTTTT GAAATCCTGT
101  ACGAAACCGG CAACCTCGGC AAAGGCAGTT ACGGCATATG GGAAATGCTG
151  GGCTACACCG CCCTCAAAAT GCCCGCCCGC GCCTACGAAC TGATTCCCCT
201  CGCCGTCCTT ATCGGCGGAC TGGTCTCCCT CAGCCAGCTT GCCGCCGGCA
251  GCGAACTGAC CGTCATCAAA GCCAGCGGCA TGAGCACCAA AAAGCTGCTG
301  TTGATTCTGT CGCAGTTCGG TTTTATTTTT GCTATTGCCA CCGTCGCGCT
351  CGGCGAATGG GTTGCGCCCA CACTGAGCCA AAAAGCCGAA AACATCAAAG
401  CCGCCGCCAT CAACGGCAAA ATCAGCACCG GCAATACCGG CCTTTGGCTG
451  AAAGAAAAAA ACAGCGTGAT CAATGTGCGC GAAATGTTGC CCGACCAT..
```

Number 116 ORF

```
  1  ..GCAGTAGCCG AAACTGCCAA CAGCCAGGGC AAAGGTAAAC AGGCAGGCAG
 51    TTCGGTTTCT GTTTCACTGA AAACTTCAGG CGACCTTTGC GGCAAACTCA
101    AAACCACCCT TAAAACTTTG GTCTGCTCTT TGGTTTCCCT GAGTATGGTA
151    TTGCCTGCCC ATGCCCAAAT TACCACCGAC AAATCAGCAC CTAAAAACCA
201    GCAGGTCGTT ATCCTTAAAA CCAACACTGG TGCCCCCTTG GTGAATATCC
251    AAACTCCGAA TGGACGCGGA TTGAGCCACA ACCGCTA.TA CGCATTTGAT
301    GTTGACAACA AAGGGGCAGT GTTAAACAAC GACCGTAACA ATAATCCGTT
351    TGTGGTCAAA GGCAGTGCGC AATTGATTTT GAACGAGGTA CGCGGTACGG
401    CTAGCAAACT CAACGGCATC GTTACCGTAG GCGGTCAAAA GGCCGACGTG
451    ATTATTGCCA ACCCCAACGG CATTACCGTT AATGGCGGCG GCTTTAAAAA
501    TGTCGGTCGG GGCATCTTAA CTACCGGTGC GCCCCAAATC GGCAAAGACG
551    GTGCACTGAC AGGATTTGAT GTGCGTCAAG GCACATTGGA CCGTAGrAGC
601    AGCAGGTTGG AATGATAAAG GCGGAGCmrm yTACACCGGG GTACTTGCTC
651    GTGCAGTTGC TTTGCAGGGG AAATTwmmGG GTAAA.AACT GGCGGTTTCT
701    ACCGGTCCTC AGAAAGTAGA TTACGCCAGC GGCGAAATCA GTGCAGGTAC
751    GGCAGCGGGT ACGAAACCGA CTATTGCCCT TGATACTGCC GCACTGGGCG
801    GTATGTACGC CGACAGCATC ACACTGATTG CCAATGAAAA AGGCGTAGGC
851    GTCTAA
```

Number 117 ORF

```
   1 ..CGCTTCATTC ATGATGAAGC AGTCGGCAGC AACATCGGCG GCGGCAAAAT
  51   GATTGTTGCA GCCGGGCAGG ATATCAATGT ACGCGGCAnA AGCCTTATTT
 101   CTGATAAGGG CATTGTTTTA AAAGCAGGAC ACGACATCGA TATTTCTACT
 151   GCCCATAATC GCTATACCGG CAATGAATAC CACGAGAGCA wAAAwTCAGG
 201   CGTCATGGGT ACTGGCGGAT TGGGCTTTAC TATCGGTAAC CGGAAAACTA
 251   CCGATGACAC TGATCGTACC AATATTGTsC ATACAGGCAG CATTATAGGC
 301   AGCCTGAaTG GAGACACCGT TACAGTTGCA GGAAACCGCT ACCGACAAAC
 351   CGGCAGTACC GTCTCCAGCC CCGAGGGGCG CAATACCGTC ACAGCCAAAw
 401   GCATAGATGT AGAGTTCGCA AACAACCGGT ATGCCACTGA CTACGcCCAT
 451   ACCCAgGGAA CAAAAAGGCC TTACCGTCGC CCTCAATGTC CCGGTTGTCC
 501   AAGCTGCACA AAACTTCATA CAAGCAGCCC AAAATGTGGG CAAAAGTAAA
 551   AATAAACGCG TTAATGCCAT GGCTGCAGCC AATGCTGCAT GGCAGAGTTA
 601   TCAAGCAACC CAACAAATGC AACAATTTGC TCCAAGCAGC AGTGCGGGAC
 651   AAGGTCAAAA CTACAATCAA AGCCCCAGTA TCAGTGTGTC CATTAC.TAC
 701   GGCGAACAGA AAAGTCGTAA CGAGCAAAAA AGACATTACA CCGAAgCGGC
 751   AgCAAGTCAA ATTATCGGCA AAGGGCAAAC CACACTTGCG GCAACAGGAA
 801   GTGGGGAGCA GTCCAATATC AATATTACAG GTTCCGATGT CATCGGCCAT
 851   GCAGGTACTC C.CTCATTGC CGACAACCAT ATCAGACTCC AATCTGCCAA
 901   ACAGGACGGC AGCGAGCAAA GCAAAAACAA AAGCAGTGGT TGGAATGCAG
 951   GCGTACGTnn CAAAATAGGC AACGGCATCA GGTTTGGAAT TACCGCCGGA
1001   GGAAATATCG GTAAAGGTAA AGAGCAAGGG GGAAGTACTA CCCACCGCCA
1051   CACCCATGTC GGCAGCACAA CCGGCAAAAC TACCATCCGA AGCGGCGGGg
1101   GATACCACCC TCAAAGGTGT GCAGCTCATC GGCAAAGGCA TACAGGCAGA
1151   TACGCGCAAC CTGCATATAG AAAGTGTTCA AGATACTGAA ACCTATCAGA
1201   GCAAACAGCA AAACGGCAAT GTCCAAGTTt ACTGTCGGTT ACGGATTCAG
1251   TGCAAGCGGC AGTTACCGCC AAAGCAAAGT CAAAGCAGAC CATGCCTCCG
1301   TAACCGGGCA AAgCGGTATT TATGCCGGAG AAGACGGCTA TCAAATyAAA
1351   GTyAGAGACA ACACAGACCT yAAGGGCGGT ATCATCACGT CTAGCCAAAG
1401   CGCAGAAGAT AAGGGCAAAA ACCTTTTTCA GACGGCCACC CTTACTGCCA
1451   GCGACATTCA AAACCACAGC CGCTACGAAG GCAGAAGCTT CGGCATAGGC
1501   GGCAGTTTCG ACCTGAACGG CGGCTGGGAC GGCACGGTTA CCGACAAACA
1551   AGGCAGGCCT ACCGACAGGA TAAGCCCGGC AGCCGGCTAC GGCAGCGACG
1601   GAGACAGCAA AAACAGCACC ACCCGCAGCG GCGTCAACAC CCACAACATA
1651   CACATCACCG ACGAAGCGGG ACAACTTGCC CGAACAGGCA GGACTGCAAA
1701   AGAAACCGAA GCGCGTATCT ACACCGGCAT CGACACCGAA ACTGCGGATC
1751   AACACTCAGG CCATCTGAAA AACAGCTTCG AC...
```

Number 118 ORF

```
   1 ..ACGACCGGCA GCCTCGGCGG CATACTGGCC GGCGGCGGCA CTTCCCTTGC
  51   CGCACCGTAT TTGGACAAAG CGGCGGAAAA CCTCGGTCCG GCGGGCAAAG
 101   CGGCGGTCAA CGCACTGGGC GGTGCGGCCA TCGGCTATGC AACTGGTGGT
 151   AGTGGTGGTG CTGTGGTGGG TGCGAATGTA GATTGGAACA ATAGGCAGCT
 201   GCATCCGAAA GAAATGGCGT TGGCCGACAA ATATGCCGAA GCCCTCAAGC
 251   GCGAAGTTGA AAAACGCGAA GGCAGAAAAA TCAGCAGCCA AGAAGCGGCA
 301   ATGAGAATCC GCAGGCAGAT ATGCGTTGGG TGGACAAAGG TTCCCAAGAC
 351   GGCTATACCG ACCAAAGCGT CATATCCCTT ATCGGAATGA
```

Number 119 ORF

```
   1 ..CAATGCCGTC TGAAAAGCTC ACAATTTTAC AGACGGCATT TGTTATGCAA
  51   GTACATATAC AGATTCCCTA TATACTGCCC AGrkGCGTGC GTgGCTGAAG
 101   ACACCCCCTA CGCTTGCTAT TTGrAACAGC TCCAAGTCAC CAAAGACGTC
 151   AACTGGAACC AGGTACwACT GGCGTACGAC AAATGGGACT ATAAACAGGA
 201   AGGCTTAACC GGAGCCGGAG CAGCGATTAT TGCGCTGGCT GTTACCGTGG
 251   TTACTGCGGG CGCGGGAgCC GGAGCCGCAC TGGGcTTAAA CGGCGCGGCc
 301   GCAGCGGCAA CCGATGCCGC ATTCGCCTCG CTGGCCAGCC AGGcTTCCGT
 351   ATCGCTCATC AaCAACAAAG GCAATATCGG TAaCACCCTG AAAGAGCTGG
 401   GCAGAAGCAG CACGGTGAAA AATCTGATGG TTGCCGTCGc tACCGCAgGC
 451   GTagCcgaCA AAATCGGTGC TTCGGCACTG AACAATGTCA GCGATAAGCA
 501   GTGGATCAAC AACCTGACCG TCAACCTGGC CAATGCGGGC AGTGCCGCAC
```

551 TGATTAATAC CGCTGTCAAC GGCGGCAGCc tgAAAGACAA TCTGGAAGCG
601 AATATCCTTG CGGCTTTGGT GAATACTGCG CATGGAGAAG CAGCCAGTAA
651 AATCAAACAG TTGGATCAGC ACTACATTAC CCACAAGATT GCCCaTGCCA
701 TAGCGGGCTG TGCGGcTGCG GCGGCGAATA AGGGCAAGTG TCAGGATGGT
751 GCGATAgGTG CGGCTGTGGG CGAGATAGTC GGGGAgGCTT TGACAAACGG
801 CAAAAATCCT GACACTTTGA CAGCTAAAgA ACGCGaACAG ATTTTGGCAT
851 ACAGCAAACT GGTTGCCGGT ACGGTAAGCG GTGTGGTCGG CGGCGATGTA
901 AATGCGGCGG CGAATGCGGC TGAGGTAGCG GTGAAAAATA ATCAGCTTAG
951 CGACAAAtGA

Number 120 ORF

1 ATGGCAATCA TTACATTGTA TTATTCTGTC AATGGTATTT TAAATGTATG
51 TGCAAAAGCA AAAAATATTC AAGTAGTTGC CAATAATAAG AATATGGTTC
101 TTTTTGGGTT TTTGGsmrGC ATCATCGGCG GTTCAACCAA TGCCATGTCT
151 CCCATATTGT TAATATTTTT GCTTAGCGAA ACAGAAAATA AAAATcgTAT
201 CGTAAAATCA AGCAATCTAT GCTATCTTTT GGCGAAAATT GTTCAAATAT
251 ATATGCTAAG AGACCAGTAT TGGTTATTAA ATAAGAGTGA ATACGdTTTA
301 ATATTTTTAC TGTCCGTATT GTCTGTTATT GGATTGTATG TTGGAATTCG
351 GTTAAGGACT AAGATTAGCC CAaATTTTTT TAAAATGTTA ATTTTTATTG
401 tTTTATTGGT ATTGGCtCTG AAAATCGGGC AttCGGGTTT AAtCAAACTT
451 TAA

Number 121 ORF

1 ATGTTACGTt TGACTGCtTT AGCCGTATGC ACCGCCCTCG CTTTGGGCGC
51 GTGTTCGCCG CAAAATTCCG ACTCTGCCCC ACAAGCCAAA GaACAGGCGG
101 TTTCCGCCGC ACAAACCGAA GgCGCGTCCG TTACCGTCAA AACCGCGCGC
151 GGCGACGTTC AAATACCGCA AAACCCCGAA CGCATCGCCG TTTACGATTT
201 GGGTATGCTC GACACCTTGA GCAAACTGGG CGTGAAAACC GGTTTGTCCG
251 TCGATAAAAA CCGCCTGCCG TATTTAGAGG AATATTTCAA AACGACAAAA
301 CCTGCCGGCA CTTTGTTCGA GCCGGATTAC GAAACGCTCA ACGCTTACAA
351 ACCGCAGCTC ATCATCATCG GCAGCCGCGC CgCCAAGGCG TTTGACAAAT
401 TGAAcGAAAT CGCGCCGACC ATCGrmwTGA CCGCCGATAC CGCCAACCTC
451 AAAGAAAGTG CCAArGAGGC ATCGACGCTG GCGCAAATCT TC..

Number 122 ORF

1 ATGAGACATA TGAAAATACA AAATTATTTA CTAGTATTTA TAGTTTTACA
51 TATAGCCTTG ATAGTAATTA ATATAGTGTT TGGTTATTTT GTTTTTCTAT
101 TTGATTTTTT TGCGTTTTTG TTTTTTGCAA ACGTCTTTCT TGCTGTAAAT
151 TTATTATTTT TAGAAAAAAA CATAAAAAAC AAATTATTGT TTTTATTGCC
201 GATTTCTATT ATTATATGGA TGGTAATTCA TATTAGTATG ATAAATATAA
251 AATTTTATAA ATTTGAGCAT CAAATAAAGG AACAAAATAT ATCCTCGATT
301 ACTGGGGTGA TAAAACCACA TGATAGTTAT AATTATGTTT ATGACTCAAA
351 TGGATATGCT AAATTAAAAG ATAATCATAG ATATGGTAGG GTAATTAGAG
401 AAACACCTTA TATTGATGTA GTTGCATCTG ATGTTAAAAA TAAATCCATA
451 AGATTAAGCT TGGTTTGTGG TATTCATTCA TATGCTCCAT GTGCCAATTT
501 TATAAAATTT GTCAGG..

Number 123 ORF

1 ..ACCCCCAACA GCGTGACCGT CTTGCCGTCT TTCGGCGGAT TCGGGCGTAC
51 CGGCGCGACC ATCAATGCAG CAGGCGGGGT CGGCATGACT GCCTTTTCGA
101 CAACCTTAAT TTCCGTAGCC GAGGGCGCGG TTGTAGAGCT GCAGGCCGTG
151 AGAGCCAAAG CCGTCAATGC AACCGCCGCT TGCATTTTTA CGGTCTTGAG
201 TAAGGACATT TTCGATTTCC TTTTTATTTT CCGTTTTCAG ACGGCTGACT
251 TCCGCCTGTA TTTTCGCCAA AGCCATGCCG ACAGCGTGCG CCTTGACTTC
301 ATATTTAAAA GCTTCCGCGC GTGCCAGTTC CAGTTCGCGC GCATAGTTTT
351 GAGCCGACAA CAGCAGGGCT TGCGCCTTGT CGCGCTCCAT CTTGTCGATG
401 ACCGCCTGCA GCTTCGCAAA TGCCGACTTG TAGCCTTGAT GGTGCGACAC

451 AGCCAAGCCC GTGCCGACAA GCGCGATAAT GGCAATCGGT TGCCAGTAAT
501 TCGCCAGCAG TTTCACGAGA TTCATTCTCG ACCTCCTGAC GCTTCACGCT
551 GA

APPENDIX C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 1>:

gnm_1

GAAAATTCAGCAGCAGCAGGAAGATTGCCAGCATTTGCGCGGCGGTTTTAAACTTACCGA
CGGTGGCGACGGCAACGCTGTTCCTTTTGCCCATTTGCGCCATCCATTCGCGCAATGCGG
AAATGGTAATTTCCCTGCCGATGATGATCATGGCAAACAAAACATAGGTCCGGTCGAGTT
TGACCAGTAAAAGCAAAGAGACGGCGACCATCAGCTTGTCGGCAACGGGATCGAGGAAGG
CGCCGAAATCCGAGGTCTGTTTCCACAACCTTGCCAAAAATCCGTCAAACCAGTCGGTCA
AGGCGGCAACGGCAAAAATGACGGCGGCGGTGAGATTAATCGTTTCCTCCGCGAACCACG
GAAAAGGCAGGTAAAAAAGGGCTGTCAGGACAGGAATGAGCAAGACCCTCAACCATGTGA
GGAAGATGGGAGATTCCAAGGCATCGGTTTTCTCTGTGCAGACTGTAAAGTTGTGATTA
TAACGGTTATCCTCATAACCCAAAACGTAAAATTGCTGCATGGGCATTCCCCCGCCCCGC
CAATCTGTTTTCACATTCTTTTCAAACGCAGGAAAATGGCGGGCAATAAAAGCAAAATAC
CCAGTTTCAGGCTGAAAACGGCAGGTTGTGCCAACACTTCGACAAGGCGGTCTTCCGTGC
GGGCAAAATCTTTATTGCTTATAGACACTGCCACTGTTGCGGTATTCCAACAGAACGCCG
TTTAAAAAACCTTTGCCGACGGTTTCGCTTAAAACGGCTCTAACCTGCTCCGCCCTGATG
GTTCTGCCGATATTGCCGCCTGTGCACAAACTGTCGAACCCATAGCAGGAAAGCCGGTAA
TGCTGCCCGTCTGCATCCAGTTTGATTGCCCGTCCGCTGCGGTTGAGGGCGGTAACGGTC
AATTCCGCATATTCGAATGTTTTTTCTTGTTCGTGAAATGCCGTCAGGTAAGGTGCAATA
AAAACGGCGGACAACAGCAGACAGCTTATGGCGGCAAACCATACCCAGCGATAATATAGT
GGATTAAATTTAAACCAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTA
AGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCG
CCTTGTCCTGATTTAAATTTAATCCACTATATTTCACGCTTACCCCTTGTTTCTCAAATG
CCGTCTGAAATAAGCGGCTTAATATATTGTTTACAGTATTGGGAAGCATAACAGACAAAA
TGCCGTCTGAAATATTTTCAGACGGCATTTCTTATCCGAAACGGATTATTTTTGCGTTTC
AACCGCTTCCAATGCACGCAGGGCATAAGTGTAAGCGGCACCCGCATTCAGGGCAATGGC
GGTTGCCAATGCACCTGCGATTTCGCTGTCGGTCGCACCGGCTTTGGTGGCGGCGGCGGC
GTGAACACTGATGCAGCTCTCACAACGTGTAGTAATGGCAACGGCGATGGCAATCAGTTC
GCGTGTTTTAGCATCAAGTGCCTCTGCAGCTGCCGCTTGTTCCAATGCGCCGTAGGCCTG
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 2>:

gnm_2

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 3>:

gnm_3

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 4>:

gnm_4

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 5>:

gnm_5

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 6>:

gnm_6

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 7>:

gnm_7

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 8>:

gnm_8

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 9>:

gnm_9

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 10>:

gnm_10

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 11>:

gnm_11

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 12>:

gnm_12

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 13>:

gnm_13

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TATTGTGCGTCGGCGAAAGCCTCGAAGAGCGCGAAGCCGGCAAAGAACACGAAGTCATCG
CCCATCAGCTTTCCATCCTGCAAGGGCTGGATACCAAAAACATCGCCGTCGCCTACGAAC
CCGTCTGGGCGATCGGCACCGGCAAAGTCGCCACCGTCGAACAGATTGCCGATATGCACG
CATTCATCTACAAAGAAATCTTGTCTTTGTGCGGAAGCGATGTTAAAATCCGCGTCCTTT
ACGGCGGAAGTGTGAAAGCGGACAACGCGGCCGACATCTTCGCAGTACCTTATGTGGACG
CGCAACTCGTCGGCGGCGCTTCATTGTCGTACGACTCCTTTACCGCCATCATCAGTCCCG
CACAAAATGCGTAGAAAATTATGGAACCCTTCAAAACCTTAATTTGGATTGTTAATTTAA
TTTCCGCTTTGGCCGTCTTCGTGTTAGTATTGCTCCAACACGGCAAAGGCGCGGATGCCG
GCGCGACTTTCGGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 14>:

gnm_14

CATCGCCCGCCACGGCATGATTGACATCGACATCAGCTGCAAAGGCGACCTGCACATCGA
CGACCACCACACCGCCGAAGACATCGGCATCACACTCGGACAAGCAATCCGGCAGGCACT
CGGCGACAAAAAAGGCATCCGCCGTTACGGACATTCCTACGTCCCGCTCGACGAAGCCCT
CAGCCGCGTCGTCATCGACCTTTCCGGCCGCCCCGGACTCGTGTACAACATCGAATTTAC
CCGCGCACTAATCGGACGTTTCGATGTCGATTTGTTTGAAGAATTTTTCCACGGCATCGT
CAACCACAGTATGATGACCCTGCACATCGACAACCTCAGCGGCAAAAACGCCCACCATCA
GGCGGAAACCGTATTCAAAGCCTTCGGGCGCGCCCTGCGTATGGCAGTCGAACACGACCC
GCGCATGGCAGGACAGACCCCCTCGACCAAAGGCACGCTGACCGCATAAAAAACCATACC
GTCTGAAACACCCGCAGGCTTTTCAGACGGTATCGGAACAGATAAGATTACACTACACTA
CAAACAGAAAAGGAGTAAACATCATGTCCGCAAACGAATACGCACAAATCGGCTGGATAG
GCTTAGGGCAAATGGGTCTGCCTATGGTAACGCGGCTCTTGGACGGCGGCATCGAAGTCG
GCGTATACAACCGCTCGCCCGACAAAACTGCCCCCATCTCCGCCAAAGGCGCAAAAGTTT
ACGGCAACACCGCCGAACTCGTCCGCGACTATCCCGTCATTTTCCTGATGGTTTCCGACT
ATGCCGCCGTGTGCGACATCCTGAACGGAGTCCGCGACGGATTGGCCGGCAAAATCATCG
TCAACATGAGCACCATCTCCCCGACCGAAAACCTCGCCGTCAAAGCACTTGTCGAAGCCG
CAGncgGACAGTTTGCCGAAGCACCCGTTTCCGGATCGGTCGGGCCCGCCACCAACGGCA
CGCTGCTGATTCTGTTCGGCGGCAGCGAAGCCgTTTTAAACCCGCTGCAAAAAATATTTT
CCCTCGTCGGCAAAAAAACCTTCCATTTCGGCGATGTCGGCAAAGGTTCGGGCGCGAAAC
TCGTCTTGAACTCGCTCTTGGGCATTTTCGGCGAAGCGTACAGCGAAkCGATGCTGATGG
CGCGGCAGTTCGGCATCGATACCGACACCATCGTCGAAGCCATCGGsGACTCGGCAATGG

ACTCGCCCATGTTCCAAACCAAAAAATCCCTGTGGGCAAACCGCGAATTCCCGCCCGCCT
TCGCCCTCAAACACGCCTCCAAAGACCTCAACCTCGCCGTCAAAGAGCTTGAACAGGCAG
GCAACACCCTGCCCGCCGTCGAAACCGTTGCTGCCAGCTACCGCAAAGCAGTCGAAGCCG
GCTACGGCGAACAGGACGTTTCCGGCGTTTACCTGAAACTGGCAGAACACTGATTGCCTT
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AATCAGTCCCGATTATGACTATATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGC
CGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATC
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GCACAAATTTAGTCAATATCAAGACCAATTATGAACCAACTCGACCAACTTGGCACCCGT
ATCAACCTGATTTGCAATGTCTTCGACAAATGGATCGGGCAGCAGGATCTGAATTACAAC
CTCTTTGCCGTACTTTATACCCTGGCAACCGAAGGCAGCCGCACGCAAAAGCATATCGGC
GAAAAGTGGAGCCTGCCCAAACAGACCGTTTCAGGCGTATGCAAAACCCTTGCCGGACAA
GGGTTGATTGAATGGCAGGAAGGCGAACAGGACCGGCGCAAACGGTTGCTGTCGTTGACC
GAAACAGGCAAAGCCTATGCCGCACCTTTAACAGAAAGCGCGCAGGAATTCAGCGACAAA
GTATTTGCCACATTCGGCGACAAGCGCACAACTCGGCTGTTTGCCGATTTGGATGCACTG
GCTGAAGTGATGGAAAAAACAATCTCGGAAAATAAAAAATAGGGGGCAAATATGTGGAA
AATGTTGAAACACATAGCCCAAACCCACCGCAAGCGATTGATTGGCACATTTTCCCTGGT
CGGACTGGAAAACCTTTTGATGCTGGTGTATCCGGTGTTTGGCGGCCGGGCGATCAATGC
CGTGATTGCGGGGGAGGTGTGGCAGGCGTTGCTGTACGCTTTGGTTGTGCTTTTGATGTG
GCTGGTCGGTGCGGTGCGGCGGATTGCCGATACGCGCACGTTTACGCGGATTTATACCGA
AATCGCCGTGCCGGTCGTGTTGGAACAGCGGCAGCGACAAGTCCCGCATTCGGCGGTAAC
TGCGCGGGTTGCCCTGTCGCGTGAGTTTGTCAGCTTTTTTGAAGAACACCTGCCGATTGC
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CGCCATCAGCGAAAACCTGTATTTCCGCCTGAACAACAGCTTGGAACGCGACAACCACTT
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TTCGATAACCTGTTTGTTTTCAAACGCTTTCAACAACAAATCATCACTGGTCGAAATCTC
GTCAATCAAGTTCAACGCCAACGCCTGCCGACCGAACCAATGCTCGCCCGTTGCCACTTC
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CTCCAGTTCCTGTCGGAATTTCTGTTTGCCCTTTTCCGTATTTTCACCCATAAAAGTAAC
CGTGCGCTTAAATTCGCCCGCCGTCATCACATCCACATCAATATCATGTTTTTTCAACAG
GCGGTGGATATTCGGTACTTCCGCCACCACACCCACCGAACCGACAATCGCAAACGGAGC
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GACGGCGACGGTCAGCGGAATATTGCGTTCGCGCAAACGCyTAAGCTGCGAAGCCGCCAA
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CTTGGCAATCAAAAGCACCGCCGTAATCTCATGACGCAAGGATTCTACGGCGTGTGCATA
CAAATCGCCGTCAAAATCCAACACAAAAAGGCGGGATTTTTGCGTTTCGGCAGATTTCTC
CCCACCCTCCTTCAAACGCTTTTTCTCTGCTTTGGCTTCCGCCTTTTCCTTTTTCTTTTC
CTCTTTTTCCTGATGTTTTGCCTCTTCCCCGCTTAAAAAGAATGCTTCAAACGATTGCCG
CTGTTTTTTATAATTTTCCGAAAAATCCGTCAGTACGACACTGCCGCTTTCCGACTGTTT
CTTACTCTGTACGATAGCCAACACAATCAGCGCAATTGCGCCGAACACGGTAAGCAGTTC
GAGCAGGAAAATACCGTAATTCAGTAAAATTTCTTTCCACATTGATTGGATTTCCTCTTG
TTCAGGCATGAACATGTCAATATTGTCCATCACCGTCCGACAGATAAAAAAATAACCGCT
TGGAGCGGCATTGTCATTTTCAGCTTGGTGCCCGGAGCCGGAATCGAACCGGCACGGGAT
GTTTAGTCCCGACGGATTTTAAGTCCGTTGTGTCTACCTATTTCACCACCCGGGCATTTG
TGAAAGGTGGAGGCGGGGGCGCGGATTTTAACCGGCCTGTATGAAGATTGCACTCCTCAT
AGCATAAACACTCTGCCACCCCGCCATAGTACGATAATGGAGGCGAGAGTCGGAATCGAA
CCGGCGTAGACGGATTTGCAATCCGCTGCATAACCACTTTGCTATCTCGCCCTAAAACTG
GCTTATCTAAAAAACTTGGAGCGGGAAACGAGTCTCGAACTCGCGACCTCAACCTTGGCA
AGGTTGCGCTCTACCAACTGAGCTATTCCCGCGCGTTCAAACATATCGGTTTTTGGAGCG

GGAAACGAGTCTCGAACTCGCGACCTCAACCTTGGCAAGGTTGCGCTCTACCAACTGAGC
TATTCCCGCGTTGATATGTTTGAAATAAAACTTGGAGCGGGAAACGAGTCTCGAACTCGC
GACCTCAACCTTGGCAAGGTTGCGCTCTACCAACTGAGCTATTCCCGCAATGATTGCGGA
AGAATGAAATTTTTGGAGCGGGAAACGAGTCTCGAACTCGCGACCTCAACCTTGGCAAGG
TTGCGCTCTACCAACTGAGCTATTCCCGCCCGATTTCATTCTCCGATATCGAAGAGACAC
AATTATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 15>:

gnm_15

GTTCTGCCTGTATGATTAGCGTTTATTTGATTTGCTTTCTCATTTGGATATGAAATTCGT
CAGCGACCTTTTGTCCGTCATCCTGTTTTTCGCCACCTATACCGTTACCAAAAACATGAT
TGCCGCAACGGCGGTCGCATTGGTTGCCGGTGTGGTTCAGGCGGCTTTTCTGTATTGGAA
ATATAAAAAGCTGGATACGATGCAGTGGGTCGGATTGGTGCTGATTGTGGTATTCGGCGG
CGCAACCATTGTTTTGGGCGACAGCCGCTTCATTATGTGGAAGCCGAGCGTTTTGTTTTG
GCTGGGCGCGCTGTTCCTGTGGGGCAGCCACCTCGCCGGTAAAAACGGCTTGAAGGCGAG
TATCGGCAGGGAGATTCAGCTTCCGGATGCCGTATGGGCGAAATTGACGTATATGTGGGT
CGGTTTCCTGATTTTTATGGGTATCGCCAACTGGTTTGTGTTTACCCGGTTCGAGTCGCA
ATGGGTCAACTATAAAATGTTCGGCTCGACTGCACTGATGCTTGTTTTCTTTATTATTCA
GGGTATTTATCTGAGTACCTGTCTGAAAAAGGAGGATTGACTGTGGAATATTTTATGTTG
CTGGCAACAGACGGGGAGGATGTGCACGAGGCGCGTATGGCGGCACGTCCCGAACACCTC
AAACGGCTGGAGACGCTGAAGTCGGAAGGCCGGCTGTTGACGGCAGGCCCCGAATCCTTTG
CCGGAGGACTCCAACCGCGTTTCGGGCAGTTTGATTGTGGCGCAGTTCGAGTCTTTGGAT
GCGGCGCAGGCTTGGGCGGAAGACGATCCCTATGTTCATGCAGGCGTGTACAGCGAAGTG
CTGATCAAGCCGTTTAAAGCGGTGTTCAAATAATGCCGGCCGTCGATTTGATCCGCGAAC
GCCTGCAGACGCTCGATCCGCTGGTGTTGGAAATCGGCGATGAGAGCCATCTGCACAAAG
GACACGCGGGCAATACCGGCGGCGGACATTATGCCGTTTTGGTCGTTAGCGGCCGTTTTG
AAGGCGTAAGCCGCCTGAACCGCCAGAAAACGGTCAAATCGCTGCTCAAAGATTTGTTTT
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CGGCGGACTGAATGAAGTCTGCCCGAACATTTCAATTTAAAATTTAAAGAGAGAAGATTA
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ACGACAAGAAACCGTCCTTCAAAACCGTTTGGCAGGCGGTAAAATATGGCTTGAACGGCG
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CATATGACAATATCAGCGGTTTTTACAAAGGTACGCAGGAAGTCCAGTTGGGCGAAATCC
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CAAAATGCCGTCTGAAATATAAACCCGGTTCGGACGGCATATGCCGACCGAAGATATTGA
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CGCCGCCGACGCAGGCAGCGTAACCCTAGACGGACAAGAATTGCGCCACCTGCCCATACA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 16>:

gnm_16

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 17>:

gnm_17

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 18>:

gnm_18

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 19>:

gnm_19

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 20>:

gnm_20

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 21>:

gnm_21

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 22>:

gnm_22

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GCGATTTTGACTTCCAGTTGGACGGTTTGCGCTTTGGCGTTTTTAAATTTCAGGGTAACG
GGAATTTTATCGCCCTCTTTTAATTGTTTTTCAAACCCATAAACATCACATGATAGCTG
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CTGCTTCCGCCGAGCAAAAAGTCTTGTTTGGCTTCGTCGTTGTGGATTTTCATGAACGCG
CCGCCTATTTTCATACCTTCGACGGTGGTGCGCGCCCAGCCGTCCTCAACGTGGACTCCG
GCGGCGGAAACCGCGCCTGCCAAACCTGCCATCATCACGGCCGCCAATAATTTTTTCATC
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ACCAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCA
CCAAGTGGATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATT
TTTGTTAATCCACTATACATACAAATACTGCCTGGAAATTTGATGTAGATTAAGTGAATA
ATAAATACCACATACTAATCCTAAAGGATTACAAATCCTGCTGCAAGCGTTTTACCCGAA
CAGGGCAGACAGCCAAACCGCCGCCAACATCAGCATCGCGAACAATTGTGCGGCAGAACC
TGCGTCTTTGGCGAGTTTGGCCAGCTCGTGTTTTTCGGTCGAAGTATGATCGACGGCAGC
TTCGACGGCGGTGTTGAACAGTTCGACAATGACCGACACAAAAGACGCGATAATCAACGG
CAGGCGGACGGCGGTTTCGGAAACCCAAAAAAATGCCGCGCACACCAGCAGTACGTTCAG
CCACAAAACCTGACGGAATGCCGCTTCGTAACGGTAGGCGGCGGCGATGCCGTCTATCGA
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GAGTGAATCGGTTCCGTACTATTTGTACTGTCTGCAGCTTCGCCGCCTTGTCCTGATTTT
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GCGTATCCCTGCCGGCTGAGAGAAAACCCTGCCTGCCCAATCAAACCAGGCGGTTGTGAA
GCAAAAGCCTTTCAGACGGCATCGGTTTAACGTACCGACCACGCGGCAACGGCATCGGCA
AACATTGCCGCCACATCGAAACCTTTTTGTTTCATAATTTCTTGGAATCCGGTCGGGCTG
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CGCCGTTTGAGTTCGGGGGCGAGCGTTTCGGCAATTTCGCGGTCGCGTCCGCCCAATTCC
TGCGCCACGCCGCGCCCGCCTGCCGCAAGGTTGCCGCGTGTTTCGCCGTTTTGCGGATA
CGCGCCAAAGCATAGGGGACGACTTCGCCGCCGATAATCAGGATGCGTTTGTCACCGTGT
ACGATTTCGGGAATGTAGCGTTGCGCCATAATGGTGCGGGAATCAAGCTGCATCAGGGTT
TCGAGGATGCTGCCGATGTTGGGGTCTTTTTCGGTCAGGCGGAAAATTCCCATACCGCCC
ATGCCGTCGAGCGGTTTGATGATGATGTCGCCGTGTTCTTTCAAAAATGTGCGGACATCG
GCGGAACGGGTCGTTACCAGCGTGGGCGCGATAAAGCGGCTGAAGTTCAAAATCGCCAGT
TTTTCATTAAAGTCGCGCATCGCCTGTCCGCTGTTAAAGACCTTCGCGCCCTGCTGTTCC
GCCAGCGTCAGTAATTGGGTGGCGTAGAGGTATTGCATATCGAACGGCGGATCGGTACGC
ATAATCACGGCATCAAATGCTTCCAATGCCGTCTGAACTTTGTCGGCAGATTTGAACCAC
GCATGATCATCATCGTTTTTTGCACCCAAAAATTCAAATGCCGATGCCTGCGCCGTTACC
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CGGTAAAGAGGCGGTCGTACAGACGGACTTTGATTTCGGCGGCGTGTTCGGCGGAAACCC
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TGACATAGCCGTGGCGCAAGCGTACTTCGCCGCCGGGAATCAGGCGTTTGAAGCCTTTGG
GCGGATTTTCGGCAAAGTCGTCGGCTTCAATATAGATGGTTTGGGAAATAGGTACTTCGC
GCTCGCCCATTTCCTCGTGGTTCGGATGGAACGCGGCACGGCGGCTTTGGGTTCTGCCGG
TTTCAAAGTTGGTCAGGGTCACTTTGAGCGGGTTCAACACCGCCATCAGGCGTGGGGCGG
AATTTTCCAACTCTTCGCGAATCGCGCCTTCCAACACGCTCATATCGACGATGTTTTCAG
ATTTGGAAATACCGGCGCGTTTGGCAAACAGGCGCAGCCCTTCGGGCGTGTAGCCGCGTC
GGCGCATACCGGAAATGGTCGGCATACGCGGATCGTCCCAGCCGGAAACGTGTTTTTCCA
CAACCAACTGATTCAATTTCCGTTTGGAGGTAATGGTGTACAAAAGCTCCAAACGGGAAA

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TGCGTGTGAACAGGTCGAGGTTTTCTTCGACGCTGCGGTCGCGGTAAGGGCTGTTTTTAC
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CGGCATCGGCAATCAAGCATTCCACCCCCGCCTCTTTCAGCATCTTCTGCATCGCGGTAT
CGGGCAGCCGGTCGGTAAATACTTTGTCAAACGCCGTAATGTCGCCGAGCCTGACCAGCG
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TGCCGCGCCGCCTGACCAGCTCCGACACCACGGCCTCCATCGTCGTGCCGATACTGACAA
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GGCGGACAAGGCTTAAAATCTCTCCGTGCCTTTGGATTTTCGGCTTCATCGTTTTCTGCC
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GAAACGGGGCGGCGATATTGACCACCACGCCGAAGCTGACCGCTACCGGCACGACTTCCA
AACCGCCCGCACCCTGAATCACGGGCAATGTAAAATCCATACTGGTCGCACCGCCAACCC
CCACCGCCGCATCTGGAAAACGCTTCATCAGCAGCGGGATAAATGCCAGTGCAAACAGCT
CTCGTGCCAAATCGTTCAGCAGCATGATGCTGCCCCATACCGCGCCGTAAGCCTCGGTCA
TGACCAAACCCGAGAGGGAATACCAACCGAAGCCGGAAGCCATCGCCAAACCTTTCGTCC
ACGACACACCGTCTGTCGATGCGGCAAACAGCAGCCCGCCCGAAAGAGATGAAAGCATAA
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CGGCATCAGGTTCGCCATTAAAAAACCGCCTGAAGGTTCAGGCGGCTTATCCGCTCCGGC
ATTCAATCTTCCAAAGTCTTTTCCAAACGCTCCATACAGTTGCCCAAATGGCGGCGCAGG
ATTTTGACCACGCGGTTGCGCCTGCCCGCCAGCAGCAGGTCGAGGATTTCGCGGTGTTCG
GAATGCGTATGCGTATTGATGGCGTGTTTTTCCTCGCGATGCACGCCCGCCACGGCGACA
ATCAGGGAAGACCGCGCGCACAGCGTATTCATAATGTCGAACAGCACATCGTTGCCCACC
AGGCGCGCCAGTTCGACGTGGAAGGCATTGGACAGGCGGTTCCAGCCGACGCGGTCGCCC
CTGCCGGAGGCCTCTTCTTCGCGCCGTATCATCGCATAAAGCGGCTTGAGGCGCGTTTCC
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TCGAGAATCAGGGAAGACGTGGTCGGCGCATGGATAATGTCGTCGTTTTCAAAGTTCATG
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AAATCGTGTCAGAGGAATTAAAGCATTGCACAAATTTATTTTATAGTGGATTAACAAAAA
TCAGGACAAGGCGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTG
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TCCCGCCCGCCCGCAGAAGCAGGCGGATATCATTTTAAAACGCGGCATTTAAAATTTGAC
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TAAAGGCTGAATAAAGAGGAAACAGCAGGCAGATATATTCGGGAGGTGCAGTCCGAATAT
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CCGTTTCCCCATAATGCCGCCCGATGCCTATTTATCTGCCCCGGCAATTTCAAAACTGTG
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CTGAACGGCGCGCTCAATGGCCGATTCTTTCAAATCATGCCCGAATACTTTGAAATGGAT
GTGGATTTCGGTAAACACGCGCGGCGCATCGTCCGCCCGTTTCGCCGTAACCGTCGCACG
GCAGTCAGTCACTTTCTGACGCTGTTTTTCGGCAATCATCACCACATCGATGCTCGAACA
GCCCGCCACGCCCAACAGCAGCATTTCCAAAGGGCTGGGCCCGCGCTTAGCCTTACCTTC
TGCCGCCGACCCCTCCATAACGACGCTGTGCCCGCCTTCCGTCGTGCCGACAAAACACAT
CCCGTCTATCCATTTTGATGTAACCTGCATGGTGTCATTCCTGAAAATAGCGTTAAAACC
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CGATTTGAGTTTCAGCGTATAGGTTTTGCCGTCGTCGGTATAGCCGATTTGTGCCGGAAT
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TTTGACGACTTCGGTTTCCACGCCGCCTATGCTGTATTTTCCTGTACCCGCCTTATTCAA
ACCGCCGACGGAATAAAGTTTTTTGCCGTTGGTGATTTTCAGCCCCGGGGGGAGTTTCGC
GTCATTTGCCGCCAACTGCCAGGCAAGCGTGAACAAATCCATAGCCTTGGGGCTTTGCTC
GGTTTTGCTCTCGCCCGCTTTGCCGTAAGTTACGCTGCCGTCGGCGAATTTGGCTTCCGC
ATACAGTTTGCCCCTGCGTATGTCTCTATAGTAGGTAGGGTGCAGGGTATTGCCGACAAC
CGTACCGCCGGACTCGAAACGGATATTGTATAGCGGCACTTTAATCGTCGAAACGATTTT
GTAAGCATTGCCGCTGCGTTCAAATGTCATCGTGGCGGGAATGCCGTAGCTGCCGGAATA
GTGCAGCACGGCGGATTGGGGCAGCCCTGCCGCATACGCGCACGGCAGGGCGGCGGACAA
AATGGCGGCGGAAAATATATTTTTAAAAGTCTTCATCATTTGCTCCCGCCCGGTTTACGC
CGTCAGAAAACGGGCGGCATCGGCGTTTTCCGAATTTCTGACGCGGTTTCCCTCAATAAT
CAGGCGGCCGGCGGCAAAATCGGCAACGGCTTTCGGATAAAGTTTATGCTCGACAGCCAA
AACCCGTGCGGCAATATCGTCTGCCGTATCGCCGTCGAGTATCGGCACAACCCCTTGCGA
TACAATCGGGCCGCAATCCAGTTCGGCAGTAACGAAATGGATGGTGCAGCCGGCAACGCG
GCAGCCCGCCTCCAAAGCGCGTTCGTGCGTATGAAGTCCGGTAAACGAGGGAAGGATGGA
CGGGTGAATGTTCATCAGCCTGCCTTCGTAACGGGCGCAAAACTCGGGGGTCAGAATCCG
CATAAAACCTGCCAAAACCACCAAGTCGGGTTGATATGCGTCGATTTTCTCCATCATGGC
GGTATCGAAGGCAAGCCGGGATGTAAAGTTTTTATGATTCAGGCTATCGGTCGGGATGCC
GCGTTCGGCCGCCCATTGCAAACCGGCAGCCGTTTCGCTGTTGCTCAACACGGCGGCAAT
GCGGACGTTGTGAATGGCGGCATTGACGATTGCCTGCATATTGCTGCCGCGTCCAGAAAT
CAGGATGACGATGTTTTTCATAATGGTGCGCTTTTGAAAGGGATGCCGTCTGAACCGCTG
TTTGGTGGTTTCAGACGGCATTTGCCGTAAAAATGCCCGAAAACCTGTTTCGGGCATGGA
TTCGGACTTAATTTACTTTTTTGATGTCGACTTGAGCCGGCTGCTTGGCGGGCGCGTTTT
CGGGTGCGCCGATTTTGACCAGTTTCACATCAAATACCAAAGTGGCGTTCGGACCGATTT
TGTCGCCCGCACCCTGTTCGCGGTAGGCAAGGTTGGACGGGATGTAGAACGTGGCTTCGC
CGCCTTCTTTCAGAAGCTGTACGCCTTCGGTCCAACCCGGAATCACTTGGCTCAAAGGGA
AGGTGACCGGGCCGCCGTTGGCTTTGCTGCTGTCGAATACCGTACCGTCAATCAGGCGGC
CTTCGTATTCCACGGTAACGATGTCGTCTTTGGTCGGCTGTTTGCCTTCGCCCTGTTTGG
TGATTTTGTATTGCAGGCCGGAAGCAGTGGTCTTCACGCCGTCTTTGGCGGCATTTTCTT
TCAGAAAGGCTTCGCCTTTTTCTTTATTGGCCTTCGCGTCCGCCTTGTGTTTTTCTACGG
CTTTAGCCTGTTGTTCCTGAAGGAATTTCATCATGACTTCCTGAGCCTGCTCTTCGGTCA
TTTTGATTTCTTTGCCGTCATACACTGCCTGCATGGCTTCGGTAAAGACTTTCAAATCGA
TTTCCGCGCCCTGTTCCTTCATTTGCTTCAGGGAGCGTCCGATGTCCACGCCCATCGCAT
AGCTTGCCTGCTGCATCGTGCTGCCGATCGAAGAGGTGTCGCCCTGCGCGGAAGAAGCGG
CGGCAGGTTCGGATGCAGATGCGGGGGCGGCTTCTTTTTTGCCGCAGGCGGAAAGTGCCA
AAGTCGGCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 23>:

gmm_23

CGTTTTCATCACCAAATGCTGCGTCAGGTTGTGGAACTCGGCGCGACTGATGCTTGTGTC
GATTGCCATGCCGTCTGAAAGCGTCGCCTGAATGCGCGCTTCGGTTTGCGTGGTTAATTG
TTCTTTGGCGGCGCGGACGAGCGAGAGCAGGAGTTGGCTGTCTTGTTCGTTGAGTTGGGA
GAGTCCGTTTTGTTCGAGCAGGCGGCAGAACAGGCGGTGGTCGAAATCGTCGCCGCCCAA
CGCGCTGTTGCCGCCGGTGGCTTTGACTTCAAACAGTCCTTTGGTCAGTTGCAATACGGA
TACGTCGAATGTGCCGCCCCCTAAGTCGTACACGACAAACGTGCCTTCCGAGGCGTTGTC
CAGCCCGTATGCGATTGCGGCGGCGGTGGGTTCGTTGAGCAGGCGCAATACGTTCAAACC
CGCCAGACGCGCGGCATCTTTGGTGGCCTGGCGTTGGGCATCGTCGAAATAGGCGGGGAC
GGTAATCACCACGCCGACCAAATCGCCGCCCAAGGTTTCTTCGGCGCGCGATTTAAGGGT
TTTGAGGAkTTCCGCCGACACTTCGACAGGCGTTTTCACCCCCTGCCGCGTATGCAGTTC
GATAACGCGTTGATTGTCGCCGAAACGGTAAGGCAGGTAGTGCGTATTTTnAGGCGGCGC
ACGGCGTTGCGTTCTTCCATCAGACGCGAATCGGCAACGCGGGTnTCGGGGTGGGCGCAA
AACGGGCATTTCATCGGGTTCGTCCTCCTATGTCGTCTGAAGTTCAGACGGCGACGCCGC
GGGCGGGCnATTTCCAGACCTTCTTCGGCACTCATATAGACGGGGTTTTCGGGACGGTCG
TGTCGGACGATGTTGCCTTCGCGGAACATGACCAGTTTGTnCACGGCAAGTTGGGACCAT
GATTCnTCGCGGGTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 24>:

gmm_24

CGGCGAAAATAGCGGTCAATGAGGCGAAGCCTGCCGATGCCAATGCCCAAAACAGCCATG
CGTTGCTGCCCATGTTTTCTCCTTGGATTGTGAACAATATGAACGGTATTTTTGTTGCTG
CGTCAAAAATTTCACTGCGGGTTTGGTGCGGATAACGTTATAATATGCCTGATATTATTT
TCAATCCACCTGTTTGTCGCCTGATGCTTTCAGACGGCATGTCCCTCCTCATTTCTAAAG
GAAAATCATGAGCTTCAAAACCGATGCCGAAATCGCCCAATCCTCCACCATGCGCCCGAT
TGGCGAAATTGCCGCCAAGCTTGGTCTGAATGCCGACAACATTGAGCCTTACGGTCATTA
CAAGGCGAAAATCAATCCTGCCGAAGCGTTCAAACTGCCGCAAAAACAGGGCAGGCTGAT
TTTGGTTACCGCCATCAACCCGACTCCGGCGGGCGAAGGCAAAACCACCGTAACCATCGG
TTTGGCGGACGCGTTGCGCCACATCGGCAAAGATGCCGTGATTGCCCTGCGCGAACCTTC
TCTGGGGCCGGTGTTCGGCGTGAAAGGCGGCGCGGCAGGCGGCGGCTATGCCCAAGTTTT
GCCGATGGAAGACATCAACCTGCACTTCACCGGAGATTTTCACGCCATCGGTGCGGCAAA
TAATCTGCTTGCCGCGATGCTCGACAACCATATCTACCAAGGCAACGAGTTGAACATCGA
CCCCAAACGCGTGCTGTGGCGGCGCGTGGTCGATATGAACGACCGCCAGTTGCGCAACAT
CATCGACGGCATGGGTAAACCCGTTGACGGCGTGATGCGTCCTGACGGTTTCGATATTAC
CGTTGCTTCCGAAGTGATGGCGGTATTCTGTCTTGCCAAAGACATCAGCGATTTGAAAGA
GCGTTTGGGCAACATCCTTGTCGCCTACGCCAAAGACGGCAGCCCCGTTTACGCCAAAGA
TTTGAAAGCGAATGGCGCGATGGCGGCATTGCTTAAAGATGCGATTAAGCCCAACTTGGT
GCAAACCATCGAAGGCACGCCCGCCTTCGTACACGGCGGCCCGTTCGCCAACATCGCCCA
CGGCTGCAACTCCGTAACCGCAACCCGTCTGGCGAAACACCTTGCCGATTACGCCGTAAC
CGAAGCAGGCTTCGGCGCGGACTTGGGCGCGGAAAAATTCTGCGACATCAAATGCCGCCT
TGCCGGTTTGAAACCTGATGCGGCTGTTGTCGTGGCGACTGTCCGCGCGTTGAAATATAA
CGGCGGCGTGGAACGCGCCAACCTCGGCGAAGAAAATTTAGACGCTTTGGAAAAAGGTTT
GCCCAACCTGCTGAAACACATTTCCAACCTGAAAAACGTATTCGGACTGCCCGTCGTCGT
TGCGCTCAACCGCTTCGTGTCCGACGCCGATGCCGAGTTGGCGATGATTGAAAAAGCCTG
TGCCGAACACGGCGTTGAAGTTTCCCTGACCGAAGTGTGGGGCAAAGGTGGTGCGGGCGG
CGCGGATTTGGCGCGCAAAGTCGTCAACGCCATTGAAAGTCAAACCAATAACTTCGGTTT
CGCCTACGATGTCGAGTTGGGCATCAAAGACAAAATCCGTGCGATTGCCCAAAAAGTGTA
CGGCGCGGAAGATGTTGATTTCAGCGCGGAAGCGTCTGCCGAAATCGCTTCACTGGAAAA

ACTGGGCTTGGACAAAATGCCGATCTGCATGGCGAAAACCCAATACTCTTTGAGCGACAA
CGCCAAACTGTTGGGCTGCCCCGAAGACTTCCGCATCGCCGTGCGCGGCATCACCGTTTC
CGCAGGCGCAGGTTTCATCGTCGCCCTGTGCGGCAACATGATGAAAATGCCCGGCCTGCC
CAAAGTTCCGGCTGCCGAGAAAATCGATGTGGACGCAGAAGGCGTGATTCACGGCTTGTT
CTGAACGGTTTTCTGAAACCGGATGCCGTCTGAAGCCGTTTCAGACGGCATTTTTTCGGA
ACGCGGGCGGCGGTATGCTATAATCCGCCGTTAAATTTCTCTATTTTCAGGAAAAAACAT
GAGTTTGAAATGCGGCATCGTCGGTTTGCCCAACGTCGGCAAATCCACCCTTTTTAACGC
GCTGACCCAATCGGGTATCGAAGCGGCAAACTATCCTTTCTGTACCATCGAACCCAACGT
CGGCATCGTCGAAGTCCCCGATCCGCGTATGGCCGAATTGGCAAAAATCGTCAATCCGCA
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CAAAGGCGAGGGCTTGGGCAACCAGTTCCTTGCCAACATCCGCGAAACCGATGCGATTGT
GAATGTCGTGCGCTGCTTTGACGACGACAACATCGTCCACGTTGCAGGCCGCGTCGATCC
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CGGTTTGGACGCGGAAGAACGCGCGATGCTCAAACCGCTGTTCCTGCTGACCGCCAAACC
GGCGATGTATGTGGCAACGTCGCCGAAGACGGTTTTGAAAACAATCCGCACCTCGACCG
CCTGAAAGAATTGGCGGCAAAAGAAAACGCCCCCGTCGTCGCCGTTTGCGCCGCGATGGA
GAGCGAAATTGCCGAATTGGAAGACGACGAAAAAGCCGAGTTCCTCGCCGAAATGGGCTT
GGAAGAACCGGGCCTGAACCGCCTGATTCGTGCCGGTTACGACCTCTTGGGGCTGCAAAC
CTATTTCACCGCCGGTGTGAAAGAAGTCCGCGCGTGGACGATACACAAAGGCGACACCGC
GCCGCAAGCCGCCGGCGTGATTCATACGGATTTTGAACGCGGCTTCATCCGCGCCCAAGT
CATTTCTTACGACGACTTTGTCTCGCTCGGCGGCGAAGCCAAAGCCAAAGAAGCCGGCAA
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TAACGTGTAACCCAAATGCGGCAGGTTTCAGGCGGCTTGCCGGAAATGCCGTCTGAAGCC
GATTTTGATGATTTTCGGCGTTTCCCGTACCGCCGGAATGCAGCCGCATCAAAATAAACT
CCCACCCGCATTTCCGATTTGCCCTCCCCGATTCCTGCAAAACAAACCGCCTGCCCCGCC
GTTACGGGAAGCCGTCCGGCATTCCGAATATCCCGATCCCCGATACGAAATGACCTTTCA
GACGGCATTTGCGCCGCCGCGTTTCGAGTATAGTGGATTAACTTTAAATCAGGACAAGGC
GACGAAACCGCAGACAGTATAGATAGTACGGCAAGGCGAGGCAACGCCGTACTGGTTTTT
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ATTGCGCGCCGCCGCCGTCTTGTCCGTCATCGTGTTCCATATCGAAAAGGATTGGCTGCC
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CCTGCCCCACCTGCGCGCCTGCGAATTACTGATAGGATCGCTGACCGCCGTGTGGATGCG
CTGCCGGCAACCTGCCGTCGGCAGACGCTGTGCCGCCGTCGGCGCATTGTTTGCCGTGTG
CATATTGTCAACCTGCCTGTTTTCCTATTCGGAACAAACCGCCTATTTCCCGGCCCCGC
CGCTTTGATTCCCTGTCTGGCTGTTGCCGCGCTGATTTATTTCAATCATTACGAACACCC
GCTTAAAAAATTTTTCCAATCGAAAATCACTGTTGCCGCCGGTTTGATTTCCTATTCGCT
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TGCCTATGATGCCGGTTTTTTCCAAAAATTCGACCGTATGCTGCATAAACTCTCGTCCGA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 25>:

gnm_25

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 26>:

gnm_26

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 27>:

gmm_27

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 28>:

gnm_28

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 29>:

gnm_29

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 30>:

gnm_30

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AGTGCGTGCTGTCGCGTAGAAACCGTTGCCCTCAATCTTGCCGTTTTCAATATGGAAAGC
AGGTTCTACACCGTTTTCCTCCGTCAGCGTTCCGGAAATCGATTTCTTGCCGAAATCAAC
GGTAAATACTGCTTTTGCCGCTTCTTTATCCGCCTGATTGTCCCATTGAATGGGTTTGCC
GATACGCGCTTCCCAAGTGCCGGTATAGTGTGCTTCTCCAGTTTTCGGAATATCCGTTTC
CGCCGTGCGGATACCTTTCAGGAAAAGGTCGATGTTCCTGCCTTTAGGGGCTTCCGGAGC
GGGCAGGATGCCGTCTGAACCGCTGCCGCCTTCTTCTGTCGGCGATTCTTCTTCGGGTTC
TTCAGCTTCATCTTCACCTTCTACGGCTTCGTCTTCTTCGCTGCCTTCGTCTTTTACGGC
TGCGTCTTCGGTGCCTTCTTCATCGTCGATTTCGTCTTCGCCTTCTTCGACGCTATCAAC
GCCTGTATCCTCTTCGTCCCTCTCTTCGTCCTGCGCCTTCGGTTTGGCGGCGGGACGTTC
GGTTTGCATCCGTCCGATTTTCACATAGGTCAGAAAATCGCAGCAGGTTCGGATTGTCGT
TTTCCTACCATCGGCAAGCTCGATGGTTTGTTCTTTGTTTACCAAAGGAATTTCACGCCC
TTCGACAAGAAGTTTGTCGGGATGACCAAAATCGGGCATAGAGGAAATGGCAAACTCACG
GGGATTTTTATCACTTGCCTCGTCAACGGAAATTTTCAGAGAATCCAAGATTTTGGTGTG
TTTTCCAGACGACAGGGCAGGTTTTGTATCTGCTGCGTTTTCTGTCTCTGTTTTTTGTTT
GCCTGCGAATACGCCGAATACGCTGTTGTCGTTGCTGATAAACCGTCCGGCAAGCTCTTC
TCCGTTATCGCCGAAAAAACCGCCCTCAAGCCGCTGATCGGCATCGGTATGGAAAAACAA
ATATTCTTTATCAGCGTGTTGCGTCTTCACCTCGGTGCTAACTTTGGCACTGCCGGTAAA
GCGGTTGCCGTCCAATGTTGCGGTAATGTCGTAAATGGTCAGCGGTTTTTTGGGCTCATT
TGGATTACTTTTATTTTGCACATACTGATTTTTAATCAGCTTGCCATTCAGGGTTTTGTT
ATCAAAATCAACCGTATATTCGGCAGGATGCTTTTCCCTGTCGTCGGCATCCCTAGCCTC
ATAAGAAGTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 31>:

gnm_31

TTTTTGGATAGCGTGCCAAATGCTGCTGAATTTGCTCAACCGAGATGGCAAGCCTTGGCG
ACACCTCAAAGCCTTGTTTTGCCAAGCGGATCGGTGTATCAAATAATTTTCCCCAAGGCA
ATACACCGTATCGCTGATGTATTGTCTCCATCAGTTTAGGGATAGCAGGCGTACCCACCG
AGCGACCACCGGCCACCGGTTCCATAAATTTCAATGGTTGACCATCTTTATCCAAAAATA
ATTCCGGCGTCGCACGCATCGGTGCCGTCTCACGCCCATCAAATGTGGTCAATGTTTTGG
CGGTATTATCCCAATACAACACAAATGCACCACCGCCCAAGCCTGACGACTGTGGCTCTA
CCAAGCTTAGTGTCGTCTGCACCGCCACCATCGCATCTGCAGCGCTACCGCCTTGCTTTA
AGATATCATAGCCAGCTTGTGTTGCTAATGGATTGGCTGACGCTACCATAAAATCACTTG
CAAGACCAGGTAAGGTTCTTCGCGTTGCATCGAATTAATCCACATCATCCACCGCTTGTG
CGGGTCCCCGTCAATTCCTTTGAGTTTTAATCTTGCGACCGTACTCCCCAGGCGGTCAAT
TTCACGCGTTAGCTACGCTACCAAGCAATCAGGTTGCCCAACAGCTAATTGACATCGTTT
AGGGCGTGGACTACCAGGGTATCTAATCCTGTTTGCTACCCACGCTTTCGGGCATGAACG
TCAGTGTTGTCCCAGGAGGCTGCCTTCGCCATCGGTATTCCTCCACATCTCTACGCATTT
CACTGCTACACGTGGAATTCTACCTCCCTCTGACACACTCGAGTCACCCAGTTCAGAACG
CAGTTCCCGGGTTGAGCCCGGGGATTTCACATCCTGCTTAAGTAACCGTCTGCGCCCGCT
TTACGCCCAGTAATTCCGATTAACGCTCGCACCCTACGTATTACCGCGGCTGCTGGCACG
TAGTTAGCCGGTGCTTATTCTTCAGGTACCGTCATCAGCCGCTGATATTAGCAACAGCCT
TTTCTTCCCTGACAAAAGTCCTTTACAACCCGAAGGCCTTCTTCAGACACGCGGCATGGC
TGGATCAGGCTTGCGCCCATTGTCCAAAATTCCCCACTGCTGCCTCCCGTAGGAGTCTGG
GCCGTGTCTCAGTCCCAGTGTGGCGGATCATCCTCTCAGACCCGCTACTGATCGTCGCCT
TGGTAGGCCTTTACCCCACCAACTAGCTAATCAGATATCGGCCGCTCGAATAGCGCAAGG
CCCGAAGGTCCCCTGCTTTCTCTCAAGACGTATGCGGTATTAGCTGATCTTTCGATCA
GTTATCCCCCACTACTCGGTACGTTCCGATATGTTACTCACCCGTTCGCCACTCGCCACC
CGAGAAGCAAGCTTCTCTGTGCTGCCGTCCGACTTGCATGTGTAAAGCATGCCGCCAGCG
TTCAATCTGAGCCAGGATCAAACTCTTATGTTCAATCTCTAACTTTTTAACTTCTGGTCT
GCTTCAAAGAAACCAACAGGACAATGTTCAAAACATTATCTTGTCTGTCTTTCAAACAGT
GTGAGACTCAAGGCACTCACACTTATCGGTAATCTGTTATGTTAAAGAGCGTTGCGAATT
ATAAAGTATTCCTTCCGCCTGTCAAGATATCTCTCGATATCCCCAACATTCTGTGCTATA
CTTTTCAGTTCGTCCGCCACTTCTGCAGCAGCGAAGAACCGAACTATACGCCCACAGGGA
AAAACGGTCAATGCTTTCAGCGGGATTTTTTTGGGGAAATTCGTCATGTCGCTGTCGGAT
AAGGTTTTTTATTTCTGCTAAATACTGCGCCGCCTCCAACAATCCTTTCCTCTCCCTCCT
CCGGCTGGTGCGCCTTTGTGAATATGCTGTCTGAAACTCGGGGACTCAGACGGCATCTGT
TGGCTCTTCTTATCTTTTCAGAATGATTTCCAATACGAACTTGCTGCCCATATAGGCAAT
CATAAGGCTGACAAATCCGATGATGGTCCACACGGCGGCTTTTTTGCCGCGCCATGCGGT
CATGCTGTGCTTGAGCAGCAGTCCGCCGTAAATCAGCCATGACAATATGCCGAATACGGT
TTTATGGGTAAAGGTCATGGGTTTGCCGAATACGGCTTCGGCAAAAAATGTTCCACTGAC
GACGGAATAGGTCAGCAGGATGAAACCTGCCCACATGGCCTGGAACATGAGTTTTTCCAA
ACTGAGCAGCGACGGCAGGAATCCTGCGAGCTTGGAGAAGCTCCTGCGGTGCAGGCTCCG
ATTCAGCAGCAGGGTCAAAACGGACAATAATGTTGCGATGCCGAACAGCCCGTATGCGAG
CAGCGAAGTTCCGATATGCAGCATAAAGGGAAGGTCGGTAATTTCATATCCCGAGAATTT
TCCAGGAAAAACCAAACCTGACAGCAGCATCAGTGCGGCGCAAGGATACAGCAGCAACTG
CACTCCGCGCAGCGGATAAAAGAAGCTGCCGGCAAAATAAATAAACAGCATCATCCAAAC
AATCAGGCTGCCGGAATACCCGAAGCCCATAATGATGATTTTGTCTTGAATGACCGGCAT
AAGCAGTGCCGCGCCGTGGACGGTCAATGCCGCACCCAAAACCGGCAATTCCGTCTTCCA
CGGGTAATCCCGGCCGCACCCCTGCTGTTGGCAGTGCCATGCAAATGCACCCAATCCTGC
GTAAACCGCCGTCAAAAAGATGAAAACTGTCGGCATGGTGGACTTTCTCTATCTATACTG
TTGCGCCGTATGCGGCCGCTTATGAAATATTGGAACTTTTAACGTTGGAATTGTAAAATC
CCCATTTCGGTCAAGCCTTGACGGATTTGCCGATATGCTGTCCGGCACACAAGCCGCATC
AAATTATTTTGATTTTATTTTAACAAAGAATGCCCCTGATGGGGCAAGCTATTCTTATTC
AGACCAAGGACCAGTATGTTAGACAATTTAACCGGCCGCTTCAGCAATGTCTTCAAAAAC
ATCCGGGGGCAGGCCAAACTGACCGAAGACAATATTAAAGAGGCCTTGCGCGAAGTCCGC
CTCGCCCTGCTTGAGGCGGATGTCGCCCTGCCTGTCGTCAAAGAGTTCATCAACAACGTC
AAAGAAAAGGCCCTCGGTCAGGAAGTAGCGGGCAGCCTGACGCCGGATCAGGCATTTATC
GGCGTGGTCAACAAAGCCCTGACCGAACTGATGGGCAGGGAAAACAAAACGCTGGATTTG
TCGGTTGCGCCGCCCGCCGTCGTGTTGATGGCAGGTTTGCAGGGCGCAGGCAAGACGACG

ACCGTCGGCAAACTCGCCCGCCTGTTGAAAAACGATCAGAAGAAAAAGGTTTTGGTGGTA
TCCGCCGACGTTTACCGTCCTGCCGCGATTGAACAGCTGCGTCTGTTGGCCGAACAGGTC
GGCGTGGATTTTTTCCCGTCCGATACCAACCAAAAACCGGTTGAAATTGCAACTGCCGCC
GTCGATTACGCCAAAAAACATTTTTACGATGTATTGATGGTCGATACCGCCGGCCGTTTG
GCAATCGATGAAGAGATGATGAACGAAATCAAAGCCCTTCACGCGGCGGTTAACCCGGTG
GAAACTTTGTTCGTCATCGATGCGATGCTGGGTCAGGATGCGGTGAACACTGCTCAGGCA
TTTAATGAAGCCCTGCCGCTGACCGGAGTCGTATTGACCAAGATGGACGGCGACTCGCGC
GGCGGTGCGGCATTGTCCGTACGCCACGTAACCGGCAAACCGATTAAATTTATCGGTGTC
GGCGAAAAAATCAACGGCCTCGAACCTTTCCACCCCGACCGTCTTGCCGGCCGCATTTTG
GGTATGGGCGACGTATTGACCCTGATTGAAGACGTTCAAAAAGGTATAGACGAAGAAGCC
GCCGCTAAAATGGCGAAAAAGCTGCACAAAGGCAAAGGCTTCGACCTCAACGACTTTAAA
GAACAAATCCAGCAAATGCGCAATATGGGCGGTTTGGAAAACCTGATGTCGAAAATGCCG
GGCGAACTGGGTCAAATCTCGAAACAAATCCCCGAAGGAACGGCTGAAAAAGCGATGGGC
AAAGTAGAAGCCATCATCAACTCGATGACCCCTAAAGAACGCGCCAACCCTGCCCTGCTC
AAAGCCAGCCGCAAACGCCGTATTGCAATGGGTGCGGGCACAACCGTGCAGGAAGTGAAC
AAATTGCTCAAACAGTTTGAACAAATGCAACAAATGATGAAGATGTTCAGCGGCAACGGC
TTGGGCAAACTGATGCGTATGGCGAAAGGAATGAGGGGGATAAAAGGGATGTTCCCGGGT
TTGTAAGCCGATTTAACAGAAAACGCCGTCTGAAATTTCAGACGGCGTTTTTGTTTTATA
TTCTGATTTATAGTGGATTAACAAAAAATCAGGACAAGGCGGCGAGCCGCAGACAGTACAG
ATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCT
AAGGCGAGCCAACGCCGTACTGGTTTTTGTTAATCCGCTATATATTCTGATTTAAAACCA
TAAGGCTTTAAGCAATCATCTCTTCTATAAAGCCTAAATACAAAAGGCCGTCTGAAATCC
TATTTTCAGATGGCCTTTACTCATTCAATCCTCAACTTATTGCGGCTTTTTCTGCTCTTC
GCGTACTTTATCCACCAACTGGTCAATCGTGGTCATACCGGACTGCCAGTCTTTAAATTC
AACTTGGTATTTGCCGCCGACAATCACAGTCGGTGTGCCGCTGATTTGGAATTTATTGGT
CAACTCTTCCATTTGAGCCGCACGCGCTTGGCTTTCAGGAGCCTCAAATGCAGCCAATAC
TTTTTTGCCGTCAAACGCTGTTTGCTCGGACAGCCATTTTTTCAGGGTATCGGTATCGGC
CAGATTGATTTTTTGATTAACCATCGCATCGAAAATATGGCTGTTGGCTTTATCTGATTC
ACCGGCCATTTCCACTGCGGCCGCCAAACGTGCCAAAGGTTTCATTTCATCACCCCACAC
GACATGCTCCCGGCGCATATAGGTATCGTCTTTAAACGTTTTGATGTGCTCGCTCAAGAC
CGGCTCAAGATGGGCGCAATGCGGGCAGAAGTAGCCGAAAAAATTCCAATACTTCGATTTT
ACCGGCCTGCTGTTGCGGAATAGGCGTAGACAATACAGTGTAGTTCACACCTTCGTTCAA
CTCAGCAGGGGCTGCCGGAGCAGATGAGCTGCTTTGGGCGCTGTCTGCCGGAACACTGGT
TTCAGCCTGTTTGCTACAAGCGGCCAATGCCAACAGGGTCAATGAAGTCAAAGCTAAGGT
TTTCAGTTTCATAGGTATCTCTTGTGTGTCAGATTAATGTGCGGATTTTATGGCATTTTA
TTGAAGGCGTGTTCGATTTGAGTGAAAAAATGTGTTTAGTTTTATTTCAGCCTTTGCCTG
ATTTCATCAGAAACGGTAATTTACCCGGGCAGTATAGCCGCGCGGATTACCCGGCATAGA
GTCCGAACGCCAATATTTTTGATTGAGCAGATTGGCTGCGGCAAAGGTAACGTTAACATT
TTTATGGTTCCAGCCAAGCATGGCATCAACTCGGGCAAAGCCTGGAAGCGTAGTCACTTC
TTTATTTCTTGAGTTGTAACCGTAGCGTTTGCCTGTACCGGTTACGCCGATTTCGCCGTA
GAGGTTTTCGGTCGGGGTATAACGGAAAAACAGGTTGCCGGTAACGTTGCTGGTATTATT
CAAATGGATGCCCACTCGGTCGGGATTTTCTTTGTCTTCAACGACTTTCGCCTGCATCAC
GCCCAACGAACCGCGCAGATAGAGTTTTTTGGGGATGATTTGCCCGATGGCGGACAATTC
CACGCCGCGCGAACGGTGTTTGCCGCTAACCGCATAAATATAAGGGTTGTTTTTTGGATC
GGGGCGGTAGCGGATATTGAAGCGTTCGATTTGGTAGGCAGACAACGTAGTGCTGAGGCG
GTCGTCCAGCCAACTGCTTTTCACGCCGGTTTCGTATTGGCGGGTGTACTCGGGGTCGGC
GTTGAACACGGCGGAAGACAACGTATCGATGCTCAAATAGCCGCCGCGTCCGCCATAAGG
CGCGAAGCCTTTGTTATACGAGGCGTAAAGTGTGTGGACGGGATTGATGTTCCACACTGC
GCCGATGTTGGGGCTGAACGAGTGTCCGCTGTATTGGCGGCTGCTGCCGGTGAGTTTGTT
TTCGGAATTAAAGGTGTATTTGTCGTAACGGCCGCCGAGGACGAATTTCAAATCGGGCGT
GGCGGAGAAGATGTTTTGCACAAAGATGCCGTAGGAGTCGGCTTTGTGGCGGTTTTGGGT
CAGAATAGGCTGCAATCTGCCCGAAGCCGGCCAGCTTGCGCGGTCGTAGGGGTTGATGGA
GGCGGAAAAGGCGCTGCTGAAACCCAATGTCGGGTTGCGGTGTTCGCGGCTGTAATCCAT
GCCTACGGTCAGGTGGTTTTCAAAACGGCCGATGGTGTAGTCGCCGTTGAGCGTTAAGTT
GGACGACAGGGTTTTGTTGTCGGTCTGCTGCCAGGCGTAGTTACGTTTGATTAAGTTGCC
ATTTTCGCTGCCTGCATAGAAATGATCAAAATCCTGCGCCGCCGTGCGGTGGGCGAGCTG
CCATTGGGCACGCCATTTGTCGTTGAAGGCGTATTCAAGGTCGGAACGCCAAACTTGCAG

CTTGTCTTTGACAAAATCGTTCCGGTGGGCGAACCCCATGCGGTAAGGCAGTCCGAAGCG
GTCGTACACGGACTTGGTCGGACTGCGGTCGGGCGTGCGCTCCACATTGTCGTAGGTGTA
TTGCCCCGTCCACTTCAAGCCGTTGTCGAGTTTGACGGTAATGCTGGGCGAAACCATGAC
ATTTTTGCTGTCTATGCCGCTGCGGAACGAATTGGCGCGCCCGACTTCGCCGGTGAGACG
GATGGCGACGTTTTTGTTCAGCACTTCGTTAATGTCCATATTCAGGCTGCGGTTTGCCCA
TGAGCCGTAAACCGCTCCGATGTTGCGGCTTTGTTTGAAGTTGGCGTATTTGCTGACCAT
GTTGATGACGCCGCCGCCGTTGGTGCGGCCGTAAAGCACGGAAGACGGGCCTTTCAGGAT
TTCCACGCGCTCGATGTTGGCAGTACTGCGGCGCACTTGTCCGCTTTCGCGCACGCCGTC
GCGGTAAATATCGGATGCGTCGGCTTGAAAACCGCGCAGGAAAATGCTTTCACCGCGCAT
ATCGTAGGCAGCGTCGATGCCGGCATTGCCTTCGAGGATGGAACTCAAATCGTTCGTACC
GTAATTTTTGTTTTTCTGGATATTGAGCGTATCGATGGTTTGCGGCGTTTCTTTGATGAG
CTGTCCGTTGCGGGTAACGGCGGCTTCGTCGTAGTTGATGTAGCCTTTGAGTACGCTGGT
GTCGGACTGTCCGACCACGGAAACGGTGGGCAGAGTGGCGGTGTAATGTTCACCATTGTC
CTGCGTATCGGCGGCAGCAACAGGGAAGGAAGCAATAATCAGCGTGGGTAATAAAGCTAA
ATGAAATGATATTTTCATTTTTATACTCAATTTAACAAAACAACCGAATTATATTGCCTC
ACGGAGGAAATGAGAATAATTTCTTTTAACTATATTGAACATGATATTTGTAAACAAAGG
TCTCAGAATGCGGAAAAACTCGCCGCCTGATACTGAAAAATGCCGTCTGAACAGGGTTCAG
ACGGCATTTTTTTGACCGCGAAATTATGCGCCGAACACTTTCAAACGTTCTGCAACGGGT
TCAAAGGTCTTTTCACCTGCCGCCCCTTCAATACCGCCGATAACCATTTGTGCGCGCAAC
AACCAGTTTTCGGGGATATTCCACGCTTTGGCAATCGCCGCATCGGGCAAGGGATTGTAA
TGTTGCAGGTTTGCACCTACGCCGACCGCGGCAAGTGTCGTCCAAACGGCATACTGCACC
ATCGCGTTTGCCTGATCCGCCCAAACGGGGAAGTTAGCGGCATAAGCAGGGAACTGCTCC
TGCAAACCTTTGACGACATTTTGATCTTCATAAAACAAAATGGTTGCCGCACCCGCCTTA
AACAGGTTCAATTTTTGCGCGGTCGGTTCAAAACTGTCGGCAGGCACGACGGCACGCAGC
GcGTCTTCGACAAATTGCCACACCTTATCATGCTCTTCGCCAAACAGCACGACCACGCGG
GCAGATTGGGAATTGAACGAAGAAGGTGTGTGCAAAACGGCGTGTTCGACGATTTGGACA
ACTTCATCTTTGCCGACGGGCAGATTTTTATTTAACGAATAAnTGGAACGGCGGCTTTCG
GCAGCCTGTTGCAGAGATTGACGGGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 32>:

gnm_32

CAGCGCGCCGCCCTCGGCATTCCCGCCCTCCCTTTGAACGCGCAGCAAACCGCCGATTTG
GTTGAGCTGCTGAAAAGCCCGCCCGCAGGCGAAGGCGAGTTCTTGGTCGAACTGCTTGCC
CACCGTGTTCCGCCCGGTGTGGACGATGCCGCCAAAGTCAAAGCCTCATTCCTGGCTGCC
GTTGCCGAAGGCAGCGCGTCCAGCCCGCTGATCTCCCCCGAATATGCGACCGAACTCTTA
GGTACAATGCTCGGCGGTTACAATATTCACGCCTTAATCGAACTCTTGGACGACGACAAA
CTCGCGTCCATTGCTGCCAAAGGCTTGAAACATACGCTTCTGATGTTCGATTCCTTCCAC
GACGTTCAAGAAAAAGCCGAAAAAGGCAACAAATACGCGCAAGAAGTTTTGCAATCTTGG
GCAGATGCCGAATGGTTCGCCTCACGCGCCAAAGTTCCCGAAAAAATCACCGTTACCGTT
TTCAAAGTTGACGGCGAAACCAATACAGACGACCTCTCCCCCGCGCCCGACGCGTGGAGT
CGTCCCGATATTCCGCTGCACGCGCTGGCCATGCTGAAAAACCCGCGCGACGGCATCACG
CCCGACAAACCGGGCGAAGTCGGTCCGATTAAATTGTTGGAAGAACTCAAAGCCAAAGGC
CATCCGGTTGCTTACGTCGGCGACGTGGTCGGTACTGGTTCTTCACGCAAATCCGCGACC
AACTCCGTCATTTGGCATACCGGCGAAGACATTCCGTTCGTGCCGAACAAACGCTTCGGC
GGCGTATGTTTGGGCGGCAAAATCGCGCCGATTTTCTTCAATACCCAAGAAGATTCCGGC
GCGCTGCCGATTGAAGTCGATGTATCTGCTCTAAAAATGGGCGATGTCGTCGATATCCTG
CCTTATGAAGGCAAAATCGTGAAAAACGGCGAGACTGTTGCCGAGTTTGAATTGAAATCA
CAAGTATTGCTGGACGAAGTGCAAGCCGGCGGCCGTATCAACCTGATTATCGGCCGAGGT
CTGACCGCCAAAGCGCGCGAAGCCCTGAAACTGCCTGCCTCTACTGCATTCCGCCTGCCG
CAAGCGCCTGCCGAAAGCAAAGCCGGTTTCACCTTGGCGCAAAAAATGGTCGGCCGCGCC
TGCGGTCTGCCCGAAGGACAAGGCGTGCGCCCGGGTACTTACTGCGAACCGCGTATGACG
ACGGTCGGCTCGCAAGACACGACCGGCCCGATGACCCGCGACGAGTTGAAAGACTTGGCT
TGTTTGGGCTTCTCCGCCGATATGGTGATGCAGTCTTTCTGCCACACCGCCGCCTATCCG

AAACCTGTCGATGTAAAAACCCATAAAGAACTGCCCGCCTTTATTTCCACCCGTGGCGGC
GTGTCACTGCGTCCGGGCGACGGCGTCATCCACTCGTGGCTCAACCGCCTGCTGCTGCCCC
GATACCGTCGGCACCGGCGGCGACAGCCATACCCGTTTCCCCATCGGTATTTCCTTCCCC
GCCGGCTCCGGCTTGGTTGCCTTTGCCGCCGCAACGGGCGTAATGCCGCTCGATATGCCC
GAGTCTGTATTGGTACGCTTCAGCGGCAAGCTGCAACCGGGCGTAACCCTGCGCGATTTG
GTGAACGCCATCCCGCTGTACGCAATCAAACAAGGTTTGCTGACCGTTGCCAAAGCCGGT
AAGAAAAACATCTTCTCCGGCCGCATCCTCGAAATCGAAGGCCTGCCTGATTTGAAAGTG
GAACAAGCCTTTGAATTGACCGACGCATCCGCCGAACGCTCCGCCGCCGGCTGTACCGTG
AAGCTCAACAAAGAGCCGATTATCGAGTACATGAAATCCAACGTCGTGTTGATGAAAAAC
ATGATTGCCAACGGCTATCAAGACCCGCGCACTTTGGAACGCCGCATCAAAGCTATGGAA
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GACGTGTGCTTCATGTCCGAACGCTCCGGCACCAAAATCGACGAAGTATTCATCGGTTCG
TGTATGACCAACATCGGCCACTTCCGCGCCGCCTCCAAACTTTTGGAAGGCAAGGCAGAC
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GAAGGACACTACGGCGTACTCGGACGTGCCGGCGCGCGTATGGAAATGCCGGGTTGCTCC
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CGCAACTTCCCGAACCGTTTGGGTAAAAACACCTTTGTTTACCTCGGTTCGGCGGAATTG
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GGCATCATCAACGAACAGGGCGATAAAATCTACCGCTATATGAACTTCAACGAAATCGAC
AGCTACAACGAAGTAGCCGAGACCGTGAACGTTTAATCCCCGTCATCCGTATGAAGTAAG
GGATTGACCGCAATGCCGTCTGAACAACCTTCAGACGGCATTGCAACATTCCGCTAACCC
TTCTTTCCGCAAACGCTGCAAATACGGCGTTCACGCCCCCACATAAAGGAAACGACAGTG
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ATGAAAGGGAAAAACATCGCCCTGATTTTTGAAAAAACCTCTACTCGGACGCGCTGCGCG
TTTGAAGTCGCCGCGCGCGATCAAGGCGCGGGAGTGACTTATTTAGAGCCGTCCGCCAGC
CAAATCGGGCATAAGGAAAGCATCAAAGACACCGCCCGCGTGTTGGGCAGGATGTACGAT
GCCATCGAATATCGCGGTTTCGGTCAGGAAGTTGTTGAAGAATTGGCGAAATACGCGGGC
GTACCCGTGTTCAACGGGCTGACCAACGAGTTCCATCCCACACAAATGCTTGCCGACGCA
CTGACTATGCGCGAACACAGCGGCAAACCTTTGAACCAAACCGCGTTTGCCTACGTCGGC
GACGCGCGTTACAACATGGGCAATTCCCTGCTGATTTTAGGGGCAAAATTGGGGATGGAC
GTGCGTATCGGCGCACCGCAAAGCCTGTGGCCGTCTGAAGGCATTATTGCCGCCGCACAC
GCCGCCGCCAAAGAAACCGGCGCAAAAATTACCCTGACCGAAAACGCGCATGAAGCCGTG
AAGAATGTTGATTTTATTCATACCGATGTGTGGGTCAGCATGGGCGAGCCGAAAGAAGTC
TGGCAGGAACGCATCGATTTGCTGAAAGATTACCGCGTTACGCCCGAACTGATGGCGGCA
TCGGGCAATCCGCAAGTCAAATTCATGCACTGCCTGCCCGCCTTCCACAACCGCGAAACC
AAAGTCGGCGAATGGATTTACGAAACCTTCGGGCTGAACGGTGTGGAAGTTACAGAAGAA
ATATTCGAAAGCCCCGCCAGCATCGTGTTCGATCAGGCGGAAAACCGTATGCACACGATT
AAAGCGGTAATGGTCGCGGCTCTGGGCGACTGACAGAACTGTGCCTGTTTAAATTCATCC
GCAACACAGATACCGTCTGAACACGATGTTCAGACGGTATCCATATATAGTGGATTAAAT
TTAAACCAGTACGGCGTTGCCTCGCCTTGCCGTACTATTTGTACTGTCTGCGGCTTCGTC
GCCTTGTCCTGATTTTTGTTAATCCACTATAAAAAAACTGCCTACACGATGTGTAGGTAG
TCCCGTTTGAAAACAATCAGTTTTTGTCTTGGTCAACCAATTTGTTGGCAGTAATCCAAG
GCATCATGGCACGCAGTTGTGCGCCGACTTTTTCAACTTGGTGGTCGGCATTCAGACGGC
GGCGGGCAGTCATAGACGCATAGTTGACATTACCCTCTTGGATAAACATTTTTGCGTATT
CGCCGGTTTGAATGCGTTTCAGGGCATTGCGCATGGCTTCTTTGCTGGAAGCATTGACCA
CTTCAGGGCCGGTAACGTATTCGCCGTACTCCGCATTGTTGGAAATGGAGTAGTTCATAT
TGGCAATACCGCCTTCGAAAATCAGGTCAACGATCAGTTTCATTTCGTGCAGACATTCGA
AGTAAGCCATTTCAGGCGCGTAACCGGCTTCGGTCAGGGTTTCAAAACCCGCCTTGATCA
ACTCGACCACGCCGCCGCACAATACGGCTTGTTCGCCGAACAGATCGGTTTCGGTTTCTT
CGCGGAAAGTGGTTTCAATCACACCGCCTTTGGTGCCGCCGTTGGCAGCCGCATAAGACA
GGGCGATGTCTTTGGCTTTGCCGGAATTGTCTTGGTAAACGGCAATCAGAGAAGGCACGC
CGCCGCCGCGTTTGTATTCACTGCGTACGGTATGGCCCGGACCTTTGGGGGCAACCATAA
TCACGTCCAAGTCGGCACGCGGAACGATTTGGTTGTAGTGCACGTTGAAGCCGTGTGCAA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 33>:

gnm_33

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 34>:

gmm_34

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 35>:

gnm_35

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 36>:

gnm_36

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 37>:

gnm_37

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APPENDIX D

The following DNA sequence was identified in *N. meningitidis B* <SEQ ID NO. 1068>:

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CCGCGCTGGTGTCGGGTTTGCAGGAAAAGGGCGTCAAGGTCGGCATCATCAGCCGGGGCT
ACGGGCGCAAGAGCAAGGCGGTTCATGTATTGAATGCTGAGAGCCGAGCGGAAGATGCGG
GCGATGAGCCTTTGCTGCTGTTCCGCAAAACCGGTGCGCCGACGGCGGTGGGCAGCAGCC
GTGCAGAGGCAGGCAGGGCGTTGCTGGCGGCGCATCCCGACATCGGACTGATTGTGGCGG
ACGACGGTTTGCAGCATTACGCCCTGCGGCGAGATGTGGAAATCGCGGTGTTTCCGGCGG
CGGATACGGGGCGCACGGATTTGGATTTACTGCCCAACGGCAGTTTGCGCGAACCTTTGT
TGCGGCTGGATTCGGTGGATGCGGTCGTCGTCAGCGGCGGCAAGGCGGATGCGCTGTTTA
GGCCGTCTGAAAATATGTTTCACAGCCGTATCGAAGCGGGACGGATTTACCGTTTGAACA
ATCCGTCCGAAATACTGGACACAGGCCGTCTGAAAAATCAAACCGTCGTCGCCGTGGCAG
GTATTGCCAAGCCGGCGCGGTTTTTTGATTCGTTGCGGAATATGGGCATTACCGTGAAGC
GAACCGTCGCGCTGCCCGACCACGCCGACATTTCGGCGGCAGATTTGCCCGATGCGGACG
CGGTCATTATTACGGAGAAAGATGCGGTCAAATTTTCAGACGGCATTTGCACCGATAATG
TTTGGGTGTTGCCCGTTTGTGCGATAATCGAACCTGATTTGGCGGCGTTTGTGTTGGAGC
GGTTGGAAGATGTACCGAAGGCCGTCTGAAAGCACGGTTTGGGCGGAGTGATTACGGATT
TGAATAAGAACGCCTCGCGCCATCATTCCCGCGCAGGCGGGAATCTAAGTCTCGAATTTT
CAGGAATGCCTAGGAGGCTCCAGAAATCCCAAATCTCCGGATTTCCACTTGGACAGGAAT
GAGAAAACCGGTCGTATTTTTTATCTGCATTAATCATTCATTAAAGGATTGAATATTAAA
CTGAAAACCTTGTTATTGCCCTTCGCCACGCTGGCATTGTGCACCAATGCTTTTGCCGCC
CCGCCCAGCGACGCGTCGTTGGCGCGTTGGCTGGATACGCAGAATTTTGACCGGGATATA
GAAAAAAATATGATTGAGGGCTTTAATGCCGGATTTAAACCGTATGCGGACAAAGCCCTT
GCCGAAATGCCGGAAGCGAAAAAAGATCAGGCGGCAGAAGCCTTTAACCGTTATCGTGAG
AATGTTTTGAAAGATTTGATTACGCCCGAAGTGAAACAGGCTGTCCGCAATACTTTATTG
AAGAATGCCCGTGAGATATACACGCAAGAAGAAATTGACGGCATGATTGCCTTTTACGGT
TCGCCTGTCGGTCAGTCCGTCGTTGCCAAAAATCCGCGCTTAATCAAGAAATCGATGAGT

GAAATAGCGGTATCTTGGACTGCATTGTCAGGGAAAATCGCGCAACATCATCTGCCCGAG
TTTACGGAAGAGTTGCGGCGCATCATCTGCGGCGGTAAAAATCCCGATGCGGGCTGTAAA
CAAGCCGGACAGGTTGGGAAAAGGCATCAGAAATAAATGATAGCCGTCTGAAATATTGAA
GAGGGCATCCGATTGATTGAACCATCAAACCCGAAAGCAACCCTATGGAAAAAAAATTCT
TAGACATCCTCGTCTGCCCCGTTACCAAAGGCAGGCTGGAATATCATCAGGACAAACAGG
AATTGTGGAGCCGTCAGGCGAAGCTTGCCTATCCGATTAAAGACGGCATTCCCTATATGC
TGGAAAACGAAGCGCGAGCGTTGAGCGAAGAGGAACTCAAAGCATGACCGAATTCGTCGT
ATTGATTCCGGCGCGGCTGGATTCGTCGCGCCTGCCCGGAAAAGCCTTGGCGGACATCCA
CGGCAAACCGATGGTCGTGCGCGTTGCCGAACAGGCGGCAAAAAGTAAAGCCGCGCGCGT
CGTCGTTGCCACCGACCATCCCGATATTCAGACGGCCTGTCAGGCGCACGGTATCGAAGT
CGTCATGACTTCAAACCGGCACGAAAGCGGCACGACGCGCCTTGCCGAAGCCTCTGTCGC
GCTGAAGCTGCCGCCGCATTTGATTGTTGTGAACGTACAGGGTGACGAGCCGCTGATTGC
CCCCGAACTCATCGACCGCACCGCCGAAGTACTCGTCGAAAACAACGTCCAAATGGCGAC
CGCCGCCCACGAATTGCACGATTTCGACGAATTGATGAATCCCAACGCCGTCAAAGTCGT
CCTCGACAAAAACCGCAACGCCATCTACTTCAGCCGCGCCCCGATTCCCTATCCGCGTGA
TGCGATACGTGCCGGAAAACGCGAAATGCCGTCTGAAACCGCCGTCCTGCGACATATCGG
CATCTACGCTTACCGCGCCGGCTTCCTGCAACGCTATGCCGAAATGAGCGTTTCGCCGCT
GGAAACCATCGAATCGCTGGAACAGCTGCGCGTCCTGTGGCACGGTTATCCCATTGCCGT
CGAAACCGCCAAAGAAGCCCCCGCCGCCGGTGTGGATACGCAAGAGGACTTGGACAGGGT
TCGCGCCGTATTTCAGACCGTATAAAACAGGTTCAAAGGGAAAAGATATGCAGCAACATA
TTGAAAAGTGGCAACACTTGAGCCGGGAAGAACAGAAAATCCTTGCTGAAGTATGGGGTC
TCGTGCAAAACGACGATCAGGAGGTTCACTATGAAATGCTCAAATTGAACGCACCCGATG
AAGCCAGCGGCGAATTTTGGTTCAGAATGGCAGAAACACTCAGCACCCTGCCGCCCAACC
GTTCCCTCGGCCTTAGAATGAACGGCGGCAGGCTGGCGACCGCCGTATCCATCCTTTCCG
TCATGATTGAAGACAATCCCGACATACCGCAGCTTTGGGCGCAAAAAATTACCGCGCTCA
ATTATAGTGGATTAAATTTAAACCAGTACGGCGTTGCCTCGCCTTGTCGTACTATCTGTA
CTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATATTTGGCACACGG
GCACAAAGCCCGTGCCGACGGTTTGGCACAACAGCCCGACAAAGCGGCAGAAGCCAACGA
GGAGGAATACCTGACCAAAGCCCTGTCGCAAAACCTGCTGTCAACATTGGATGTCGCGCT
TGCACGTTTTCCTGAAGACGCGTGGTTTCAGGAAATCAAACAGGATGCACAAAAGCATTT
TGCTTGAGGATGTGGCAGTCAGGAATATTTCCATTCAGGAAGAAAAGAAGTGCCTGATTG
GGTATAATCAGGGTAAATCTTATTTTATTTCAAAAGATTAATATTTGCTTTCTGTTTTTC
CTTGACGGTATCGGAAAAGTTGATTATAGTTACAGCTTCCTTAGGAGTAATGGCTGAGAG
GCTGAAGGCACTTCCCTGCTAAGGAAGCATGTGGGGTCAACCTGCATCGAGGGTTCGAAT
CCCTCTTACTCCGCCAGATAAAAAATAGACGCTGTGTTTTACAGCGTCTATTTTTTATGC
AATTTTATAGCGGGTTGGTGCAAAACCAGTATGGTATTGCCCTGTCTTGATTCTGAATTT
TGTTATAGTGGATGAACAAAAACCAGTACGGCGTTGCCTCGCCTTAGCTCAAAGAGAACG
ATTCTCTAAGGTGCTGGAGCACCAAGTGAATCGGCTCCGTACTATTTGTACTGTCTGCGG
CTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATAATCCGAGATGCTTGCCGTTTAT
TTCCGCCTCGTTCAAACGGCGGCTCTGATTTGCGCGGTTTCTGTTTGCCGTATTCGCCTA
TCCGTACCGCAAATGTTATACTGGAAAAATTTACTGATTGTGTTTTACGGCATATTTGC
CGATAGGATGGAAGAGACAAATGAGCAGAATCCGGCAGGCTTTTGCCGCTTTGGATGGCG
GAAAGGCATTGATTGCCTATATTACGGTGGGCGACCCCGATATTCGGACAACTTTGGCAT
TGATGCACGGCATGGTTGCAAACGGTGCGGATATTTTGGAGTTGGGTGTGCCGTTTTCCG
ATCCGATGGCGGATGGGCCGGTTATTCAGCGTGCGGCGGAGCGGGCGTTGGCAAACGGGA
TTTCGCTGCGCGATGTCTTGGATGTCGTCAGAAAATTCCGTGAAACCGACACGCAAACGC
CGGTTGTTTTGATGGGATATTTGAACCCTGTACATAAGATGGGTTATCGGAGTTTGCTC
AGGAAGCCGCAAAGGCGGGTGTGGACGGCGTGTTGACGGTGGATTCCCCTGTCGAAACCA
TCGATCCGCTCTATCGCGAGCTGAAGGATAACGGGGTCGACTGTATTTTCCTGATTGCGC
CGACGACGACGGAAGACCGTATTAAAACCATTGCCGAGCTGGCAGGCGGATTTGTCTATT
ATGTTTCGCTCAAGGGCGTAACGGGCGCGGCAAGTTTGGATACGGATGAGGTTTCGCGTA
AAATAGAGTATTTGCATCAGTATATCGATATTCCCATCGGTGTCGGTTTCGGCATCAGCA
ATGCGGAAAGTGCACGCAAAATCGGCCGGGTTGCCGACGCAGTTATTGTCGGCAGCCGGA
TTGTGAAAGAAATCGAAAACAATACAGGCAACGAGGCTGCCGCCGTCGGTGCTTTGGTAA
AAGAGTTGAAGGATGCCGTGCGCTGACGGCGGTTCCTCATCCTGAATATTTTAGGAGTTG
TCCATGAGCTGGTTAGATAAAATCCTGCCACCCAAAATCAAGAATCGCGGAAAAGACGGT
TCTTCCAATGTTCCCGAGGGTCTATGGCACAAATGCCCGTCTTGTTCGGCAACCGTTTAT

TCTACCGAGTTGCAGCAGAACAATCAGGTTTGTCCGAAATGCAACCACCACAATCCGTTG
TCGGCACGACAACGCCTGAACCTGCTTTTGGATGAGGATGGCAGGGAGGAAGTTGCCGGA
AATGTCAAACCGACAGATCCTTTGAAGTTTAAAGACGGCAAAAAATATCCGGATCGTTTG
AGTGCGGCACGCAAGCTGACCGGGGAAGATGATGCTTTGGTGGTGATGAAAGGCAAGATG
AACGGCCTGCCCGTCGTCGTTGCTGCGTTTGAGTTCCGCTTTATCGGCGGTTCGATGGGT
TCGGTTGTGGGCGAACGATTCGTACAAGGTATCCGTCGGGGGTATGCCGACAATTGTCCG
TTCGTCTGTGTGTCGGCTTCCGTCGGCGCGCGTATGCAGGAGGGTGTAAACTCGCTGATG
CAGATGACGAAAACCAGTGCCGCGCTGCATTTGCTGACGGAAAAACGCCTGCCATTTATA
TCGGTGTTGACCGATCCGACTATGGGCGGCGTATCCGCCAGCTTCGCATTTTTGGGCGAT
GTCGTGCTTGCCGAACCGAACGCGCTGATCGGTTTTGCCGGTCCGCGCGTGATTGAGCAG
ACGGTGCGCGAAACGCTGCCGGAAGGCTTCCAACGCGCCGAGTTCCTGCTGGAAAAAGGC
GCAATCGACCAGATTGTCGACCGCCGCGATATGAAGCGGCGCATCAGTGATTTGATTACG
CTGTTGTGCCGTCAGGACAAAGTTTCCGCCGCCTGATGGCTGATGAATCGAGTACCGTCT
GAAACCGATGTTTCAGACGGTATTTTTGTGTCTGGTTATTTGTTGTGCGGCTTTATCGAT
GGGGCATAGCGTCCGGCACGTTCTTTCAGGCGTTGTACCAAACCTTTCGTGTCGGCGGGT
ACACCGCCCTCGCAGAATGCCTGATACAGGACGGTGCGCAGTGCGTCGTTGCGGCTTAAT
GTACCGCCTATCGGTTTCCATTCGGCGTTTCGGGGCTGTATCCAGCGGCGGTTGACCGTG
TCGCCGTAGCCGAACACTTTATAGGAGGAAGGTTTGCCGTTGCCGAACCTGATGGAGAAG
CGGGCGCAGAATATGCCTTTGGCAGTCAGGTTGTCGTAGCCTTTGTCGGAGCGGATATTG
AGAATGTAGCGGATGCTGCCGTCGGGCGCGGGCATAATTTGCAGGCTGTCGAGCAGGATT
TTCGGCTGTTTGCCGTAATTTTCATCCACATAAATGTCGAACCAGCCGTCCGAGTGCGTA
TCGGGCAGCGGCGGCAGTTTGGCGGTATGTTCTTTAAATTCGCGGGCGGCGGCCTCTTCG
GGCGTTTCGCGGTAGCGGGTGTTGATCGGCGTGTCTTTTTGGCTGAAGCCGGCAGCGAGG
GACGTGCCGGCGGCGAGTGCGAGCAGCAGGAGGGCGGTGCGGCGCATAAGTTTCTCCAAA
TTGAAAACGGCGTTATTTTATGGGTTGGCAAAGGGGGCTGCAAGCAACTGGGGTATAATC
TCCCCCCGATTCCCATTTTTTAAACGGTACAAACGATGAACAGCGAAACTTTAGACGTAA
CCGGATTGAAATGTCCCCTGCCGATTTTGCGGGCGATAAAGGCTTTGGCGCAAATGCAGC
ACGGCGACCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 38>:

gnm_38

AGACAAACTTTTTGAACAGCATGACGGCAAACTCGAAAGCATGGACGGGCGGGAACAGGA
GCTGGATTTGATTTGGCGGACAGAAGCCGATATCGGTAACGGCAGCATACTGCAATTTGT
CTGCAACTGGGGTTTCCCCGCCGCCCGAAAAGACCTGTTCCGTTCTGAAAAAAATCGGCG
CGGTACACAGCGCAATGCTGATCCATCGGGCGGCAGACGCATTGGACAAAGAAATCCGCC
GCCTCCAATCGGAAGGTAAAAACCTGAAAGAAATGTGGGATATAACATCTCGACAACAAA
ACCGCCTCACTGCTGAACAGTCTGGATGAACAATATTGGCAAGACCCCGACAAACTGTAT
CTGCTGGGATGGCAATACTATTCCAGCAACCCTGTTCAGACGGTGGCGGATTCGCATTTG
AAGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCATACGGCCTTTCCTGCA
AGAAAGATTGCCATGAGCTACACGCAACTGACCCAAGGCGAACGATACCACATCCAATAC
CTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTGAACCGCCACAAAAGCACC
ATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATACAGCGCCGAAAAAGCC
CAGCGGCAAAGCCGGACTATCAAACAGCGTAAGCGACAACCCTATAAGCTCGATTCGCAG
CTGATTCAGCACATCGACCCCCTTATCCGCCGCAAACTCAGTCCCGAACAAGTATGCGCC
TACCTGTGCAAACACCACCAGATCACGCTCCACCACAGCACCATTTACCGCTACCTTCGC
CAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATATGCAGCAAACCCTAC
CGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAACCGTGTCGGCATAGAA
AACCGACCCGCTATCGTCGACCAGAAATCCCGTATCGGCGATTGGGAAGCCGACACCATT
GTCGGCAAAGGACATAAAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 39>:

gnm_39

CCGGCAAACACCGGCGCGTCCCATCCGTGCAGAAAAAAGGATACGGAAAAGGATAAACGC
CATAACGTGCGGCGTTTGCTATAATCCGCCCCTTCATTACCGCAGCCCGCCGAAAGATGC
CGATGGCAAAACCGCTCAAATACCCCGTTTCCGCACTGGTCGTCCTTTATAGCGGGGACG
GCGGCATCCTGCTCATCGAACGCACGCATCCGGAAGGATTTTGGCAGTCGGTAACCGGCA
GCCTCGAACCGGGCGAAACCGTCGCCCAAACGGCAAGGCGCGAAGTTTGGGAAGAAACCG
GCATCCTGCTGGCGGACGGGCAGCTTCAAGACTGGCACGACAGCACGGTTTACGAAATCT
ACCACCACTGGCGGCACCGCTATCCAAAAGGCGTGTTTGAAAAACCGCGAACACCTCTTCT
CTGCCGAAATCCCGCGTGATACGCCCATCGCCCTGCAACCCGAAGAACACGTCTCCTACG
GTTGGTTCGATATGGAAGAAGCAGCGGAAAAAGTATTTTCCCCGTCCAACAGGCGCGCGA
TTTTGGAACTGGGCAGGTTTTTGGGCAAACGGTAACACGCGCCCGTACACCCTTTCAGAG
GCATCGGGCGCATTTTCAGCCGGACGTTTGTGCTATACTTTCAAACTTCACACTTTCCCA
AACAAAGGAAACCAAATGGCAGACTTCAACCAAATCCTGACCCCCGGCGACGTGGACGGC
GGCATCATCAACGTTGTCAACGAAATCCCCGCCGGCAGCAACCACAAAATCGAATgGAAC
gCAAACTGgCCGCATTCCAACTCGACCGCGTCGAACCCGCCATCTTCGCCAAACCGACCA
ACTACGGCTTCATTCCCCAAACTTTGGACGAAGACGGCGACGAATTGGACGTGCTGCTCG
TTACCGAACAACCTTTGGCAACCGGCGTATTCTTGGAAGCGCGCGTTATCGGCGTGATGA
AATTCGTTGACGACGGCGAAGTGGACGACAAAATCGTCTGCGTTCCTGCCGACGACCGCA
ACAACGGCAACGCCTACAAAACTTTGTCCGATTTGCCGCAACAGCTCATCAAACAAATCG
AGTTCCACTTCAACCATTACAAAGACCTGAAAAAAGCAGGTACGACCAAAGTCGAATCGT
GGGGCGATGCGGAAGAAGCGAAAAAAGTCATCAAAGAATCCATCGAACGTTGGAACAAAC
AGGCATAACGCCCGCCATGCCGTCTGAACGCCGTTTCAGACGGCATTTTTCCAAGCTCTA
GGGAATACCGTCCCAATCGGCTATAATCCGAACATACCGTTTCCGACCGAACGCCATGAA
CCGCCGAAAAAATCTATCTGTTGTCTGTTGCCCTCTTCACACTGGCATTTATGCTGCTCGT
CCTCTTGGGTGCTTATCTGCTGACCGTCGGCAGCAAAGCCTTCGCCGTCGCCTCCTTTCT
TTTCGCATTCGGCGCACTGTTCGGACAAATCGGCAGCCTCGCCCTCTACCTGCGGCACAA
ATCCCTACGCGCCGCCCAATCCGCCACAAAGGAAAACCGCTATGTCTGAAAAAACCGGAAA
AAATCGTTTTGGCAAGCGGCAATGCCGGCAAGCTCGAAGAGTTCGGCAACTTATTCAAAC
CTTACAGCATCACCGTATTGCCGCAATCCGCATTCGGCATACCCGAATGCCCCGAACCCT
ATCCCACCTTTGTCGAAAACGCGCTGGCAAAAGCACGCCATGCCGCCAAATACAGCGGGC
TGCCCGCACTCGCCGACGACAGCGGCATCTGTGCCGCCGCCTTAAACGGCGCGCCGGGCA
TCCATTCCGCACGTTACGCGGGCGACAATCCCAAATCCGATACCGCCAACAACCTGAAAC
TTGCCGCCGAACTTGTCGGCAAGGCAGACAAAAGCTGCTGCTATGTCTGCGTATTGGTTT
TTGTCCGCCATAAAGACGACCCGCGCCCGATTATCGCCGAGGGCGTATGGCACGGGCAGT
GGAACGACACGCCGCTCGGGCAAAACGGTTTCGGTTACGACCCGTATTTTTATCTGCCCG
AACACGGCAAAACCGCCGCCGAATTGGATACGGAGGTCAAAAACCGCGAAAGCCACCGCG
CGCAGGCACTTGCCGAACTCTTACGCAAACTCGCCCTTTAAACATCAAAACAATACAAAG
GAAAAAGAATGAAACCCATACGGAAAGCCGTTTTCCCCGTCGCAGGGATGGGAACCCGCT
TCCTGCCCGCCACCAAGGCCAGCCCGAAAGAAATGCTGCCCATCGTCGACAAGCCGCTGA
TCCAATACGCCGTAGAAGAAGCCGTGGAAGCCGGCTGCACGGAAATGGTGTTTGTTACCG
GACGCAACAAACGCAGCATCGAAGACCATTTCGACAAGGCATACGAACTCGAAACCGAGT
TGGAAATGCGCCATAAAGACAAATTGTTGGAACACGTCCGCAACATCCTGCCGCCGAACA
TTACCTGCCTCTACATCCGTCAGGCGGAAGCACTGGGCTTGGGACACGCCGTCTTGTGCG
CCCGCGCCGCCATCGGAGACGAACCCTTTGCCGTTATCCTTGCCGACGACCTGATTGATG
CCCCCAAAGGCGCGCTCAAACAAATGGTCGAAGTGTACGGGCGCAGCGGCAACAGCATTT
TGGGCGTAGAAACCGTTGAAGCATCGCAAACCGGCTCATACGGCATCGTCGAAACCGAAC
AGCTCAAACAGTTCCAACGCATTACCGGCATTGTCGAAAAACCCAAGCCCGAAGACGCGC
CCTCCAACCTTGCCGTTGTTGGACGCTACATCCTCACCCCGCGCATTTTCGACCTCTTAA
CCAATCTTCCGCGCGGCGCGGGCAACGAAATCCAGCTTACAGACGGCATCGCCAAGCTGC
TCGATCACGAATTTGTCCTGGCGCACCCCTTTGAAGGTACGCGCTACGACTGCGGCAGCA
AACTGGGCTACCTCGAAGCCACCGTCGCCTACGGTCTGAAACATCCCGAAACCGGCGAAC
CCTTCCGCCGGCTTTTGGAAAAATACCGCACCGAATAACCCCATCAAGGAATCCTTATGC
ACGACAAAACCTGGTCCGGACGTTTCAACGAACCCGTTTCCGAACTCGTCAAACAATACA
CCGCCTCCATCGGTTTCGACCGACGGCTTGCCGAATGGGACATCCAAGGCTCGCTGGCAC
ACGCGCAAATGCTGAAAGAAACCGGCGTGTTGGACGAAGGCGATTTGGCGGACATCCGCC
GGGGTATGGCGGAAATCCTCGAAGAAATCCGCAGCGGCAAAATCGAATGGTCGTCCGATT

TGGAAGATGTCCATATGAACATCGAACGCCGCCTGACCGACAAAATCGGCGACGCGGGCA
AACGCCTGCACACCGGCCGCAGCCGCAACGACCAAGTCGCCACCGACATCCGCCTGTGGC
TGCGCGACCAGATTACCGTTATACAAAGCCTGATTCAAAGCCTTCAGACGGCATTGCTGG
ATTTGGCGGAACAAAACGCCGAAACCGTCATGCCAGGCTTTACCCACCTGCAAGTCGCCC
AGCCCGTCAGCTTCGGACACCATATGCTCGCCTACGTCGAAATGCTCGGACGCGATAACG
AACGGATGGCGGACTGCCGCTGCCGCGTCAACCGTATGCCGCTCGGCGCAGCCGCCCTTG
CCGGGACGACCTACCCGATTCAGCGCGAAATCACCGCCGAGCTATTGGGCTTTGAACAAA
TCTGCCAGAACTCGCTCGATGCCGTATCCGACCGCGATTTCGCCATTGAGTTCACAGCCG
CCGCCTCGCTGGTTATGGTTCACCTGAGCCGCCTGTCTGAAGAATTGATTTTGTGGATGA
GCCCGCGTTTCGGCTTTATCGACATCGCCGACCGTTTCTGCACAGGTTCGTCCATCATGC
CGCAGAAGAAAAACCCCGACGTGCCCGAACTCGTGCGCGGCAAATCCGGCCGCGTCATCG
GACACCTTATCGGTCTGATTACCCTGATGAAATCCCAACCCTTGGCGTACAACAAAGACA
ATCAGGAAGACAAAGAACCCTTGTTCGACACCGCCGACACGCTTATCGACACGTTGCGGA
TTTACGCCGATATGATGCGCGGCGTAACCGTCAAACCCGACAATATGCGCGCCGCCGTGA
TGCAGGGCTTCGCTACCGCCACCGACTTGGCGGATTATCTGGTCAAAAAAGGCATGCCTT
TCCGCGATGCCCACGAAGTCGTCGCCCAAGCCGTGCGCCACGCCGACCAAGCGGGCGTCG
ATTTGAGCGAACTGCCGCTCGAAGTCTTACAAGGTTTCAGCGATTTGATTGCCGACGACG
TTTACGGCGTGCTGACACCCGAAGGCAGCTTAAACGCCCGCAACCACTTGGGCGGTACCG
CGCCGGAACAAGTCCGCTTCCAAGTGAAACGCTGGCGGGAAATGTTGGCTTAACCCCCAA
ATGCCGTCTGAAGAAATGTTCAGACGGCATTTTTAAAAGGCAAGAACACGATGACCGATA
CGGATACCCAAGCCGACCGCTTCGAACAGATGATGTGGCAGGCGGTGGACAAACTTTTTG
AACAGCATGACGGCAAACTCGAAAGCATGGACGGGCGGGAACAGGAGCTGGTTTTGATTT
GGCGGACAGAAGCCGATATCGGTAACGGCAGCATACTGCAATTTGTCTGCAACTGGGGTT
TCCCCGCCGCCGAAAAGACTTGTTCCGTTCTGAAAAAAATCGGCGCGGTACACAGCGCAA
TGCTGATCCATCGGGCGGCAGACGCATTGGACAAAGAAATCCGCCGCCTCCAATCGGAAG
GTAAAAACCTGAAAGAAATGTGGGATATAACATCTCGACAACAAAACCGCCTCACTGCTG
AACAGTCTGGATGAACAATATTGGCAAGACCCCGACAAACTGTATCTGCTGGGATGGCAA
TACTATTCCAGCAACCCTGTTCAGACGGTGGCGGATTCGCATATAACGTGGGCCAATCTA
TGTATAATAGGAATTCCAGAAGGAGTAGAAAAAGATAAGGGAATGGAAAATAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 40>:

gnm_40

CATGAAAATGCAGGCAGTTGTTGTGAATAAAAATGTAGCGGGCGATGTGGAAGTAATCGA
ACGCGAGGTTCGCCCGTTGGAATACGGCGAGGCATTGGTCGAAGTCGAATATTGCGGCGT
GTGCCACACCGACCTGCACGTTGCGGCAGGCGACTACGGCGAAAAACCGGGCCGCGTGTT
GGGACACGAAGGCATCGGTTTGGTTAAAGAAGTTGCCGACGGTGTGAAAAATCTGAAAGT
CGGCGACCGCGTCAGCATCGCTTGGCTGTTCCAAAGCTGCGGCTCTTGCGAATACTGCAA
TACCGGCCGCGAAACCCTGTGCCGTTCCGTATTGAACGCGGGCTACACCGCCGACGGCGG
TATGGCGACCCACTGTATCGTGAGTGCCGATTACGCGGTCAAAGTCCCTGAAGGTTTGGA
TCCTGCGCAAGCTTCCAGCATTACTTGTGCCGGTGTAACCACTTATAAAGCCATTAAAGT
TTCCGGCGTTCGTCCGGGACAGTGGATTGCCATCTACGGCGCGGGCGGTTTGGGCAACTT
GGGGGTCCAATACGCGAAAAAAGTATTCGGCGCGCACGTTGTCGCCATCGACATCAACGA
CGACAAACTGGCGTTTGCCAAAGAAACCGGCGCGGATTTGGTTGTCAACGCCGCCAAAGA
AGACGCTGCCAAAGTGATTCAGGAAAAAACCGGCGGCGCACACGCTGCGGTCGTAACCGC
CGTATCTGCTGCCGCATTCAACTCTGCCGTGAATTGCGTCCGCGCGGGCGGACGTGTGGT
TGCCATCGGGCTGCCGCCGGAATCGATGGATTTGTCCATCCCGCGTTTGGTTTTGGACGG
CATCGAAGTGGTCGGCTCTTTGGTCGGCACGCGCAAAGATTTGGAAGAAGCCTTCCAATT
CGGCGCGGAAGGTTTGGTTGTGCCGAAAGTCCAACTGCGTGCTTTGGATGAAGCACCCGC
CATTTTCCAAGAAATGCGCGAAGGCAAAATCACCGGCCGTATGGTGATCGATATGAAAAA
AGAATGCGGCTGCGGCCATCACCACTGATTTGACGTGGCAGTACACATCGAAATGCCGTC
TGAACGCTGTTCAGACGGCATTTTTTATGGATTTGGATTTGATTTTAATCTGTTCTGTTT
GAAATACCGTCTGAAAACCCATATCGCAACACTTCATTAAAAACGGCAAGATTCAGCCGT
TCTGCAACCCGTTCAAACGGCTTCCGCCATTTCCAACGCCTGTTTGATGTCCACGGCGAC

GACGCGCGAGACACCTTTTTCCTGCATGGTTACGCCGACCAGCTGCTCCGCCATTTCCAT
CGTCAGGCGGTTGTGGGAGATGTAGAGGAACTGGGTTTGCGCCGACATTTCTTTGACCAG
CCTGCAGAAACGCGAGGTGTTGGCGTCGTCCAGCGGGGCATCGACTTCGTCCAAAAGGCA
GAACGGAGCGGGGTTGAGGCTGAACAGAGCGAACACGAGGCTCATGGCGGTGAGGGCTTT
TTCGCCGCCGGAGAGGAGGTGGATGGTGCTGTTTTTCTTGCCGGGCGGACGCGCCATAAT
GGACACACCGGCGGTCAGTAGGTCGTCGCCTATCATTTTGAGAGTGGCTTCGCCGCCGCC
GAACAGGGTCGGGAAGAAGGTTTGGACTTTGCTGTTGACGGCATCGAAGGTTTCTTTGAA
ACGCGCTTTGGTTTTGTCGTCGATTTGGGCGATGGCTTCTTCCAAAAGGGTGATGGCTGC
CTGCACGTCTTCGCTTTGGCTGCGGTAGTAGCCGTCGCGTTCGCGCGCTTCTTCGAGTTC
TTGCAGGGCGGCGAGGTTGACCGCGCCGAGTGCTTCGATTTGTTGCGAAAGGCTGCCGAT
GCTGCTGTTCAATACTTTCGGCGATTCTTTCGCCAACGCTTCGAGCGCGTCCAAATCGGC
GGCGCGTTCGGTCAGGTTTTGATGGTAGCGTTTGGCGTTGATCAGGGCTTCCTGCTGCTG
CAACAAGGCGGTTTGGGTGGCGGCCTGAAGCTGCGGCAGCTTGGTTTGCAGGGTTTGCAC
TTTAGCGTATTGCTCCCTGCCCTGTTCCTGAATCTGCGCGAGTTTCTCTTGCACAACAAT
ATATTCTTCGTCCAAGGTCTGTACGGCTTCGCTTAATTCTTCAAGCTTGATGTGCTGCTC
GTCGTTTTGGAACTCGGTTTCATAGGCGAGGGCAAGCTCTTGCTGGCGTTCCTGCCAGTC
GAGGGTTTGCTGTTCAAGCTGGGCGATTTGCTGCCGGTAGTTTTGTTTTTGCTGGTTGAG
TTTGTGGACGGCGACTTCGGCAAGCCCGTATTGGCGGTTGGCTTCCAACAGGGCAAGCTG
CGCCTGTTTCAGACGGCCTTGCTGCTCTTGGCGGCTGTGCGCGGTGGTTTGCTGCTGGTG
TTCGAGTTCGGCGGCGGCTTCCTGCAAGGTAACGATGTCGTCTGAAAGCCCGTCGGACGT
GTGTTGCAACACGGTCTGTTCTTCCGCCAACTGCGCCAGTTCGCGCTCGATGTGTTCGCG
GCGGATTTGCCCTTGGTTGGTACGCGCTAAGAGTTCGGCGGCGCGTTGCTGTGCTTGACT
GTATTGGCGCGTGTGCTGCTGTTGCTGCTGCATCAGGTTTTTATGTTGCACTTCAGACGA
GCGCACGGCAGCTTCCGCCTGTTTGAACGCGGCTTCGGCGGCGGAAAGTTCGGGGGCGAG
GTTTTCCAGTTCGGACGCGATGCCGTCGAGGCGCGCTTTTTGGGCAATCAGGCTTTCCTG
CGCGGGTTTGGCATAGAGCAGGACGCTGACTTTATCGACCTGATGACCTTCGGGCGTGAG
CCAGATTTGGTGTGCGCCCAAATCGTTTTGATGCGCGAGGGCATAGCTCAAATCGGGCGC
GCACAATACGCCGTCGAGCCAGTAGTGCAATGCCGTCTGAAACGGCGGCTGCGCTTGGAT
TTGGTTCAGCAATGCCTGTACGGGCAGGGATTTTTTGATGCCGCCTGAGAGGTCGTCTGA
AAGCCATGCCGCCTGCCCCTGCGGCAAAGGCTCGGGCGGCACGAAACCTTGCGGCACGGC
GCGGGCGTGCAGGCGTTCGGCAAGAATGACGGACAAGGCGTGCTGCCACTCGGCGGGCGC
GGTGATGTGTTGCCACAGTTGCGGCGCGGCGGCGTGGTCGGTTGCCTGCCAGAAATCGGC
GGCTTCCTGCTGTTGCGACAGGATTTGCGACAACGCCTGCTGCTGCGCCTGCAAGGTGAT
GTGTTGCTGCTTCAGGCTTTGGAAGCGGTTTGAGGCCGTCTGAAACGCCTCGCGGGCGGC
GTGTAAGGCTTCTTCGGCGGCAATGATTTGTTCTTCGTAATGCTCTTGCTGACTTTGCAA
CAAGGCGGCTGCTTCCTGCGCGGCGGCGGTTTCGGCTTCGTCGGGCAGGTTTAAGGCTTG
GTTTTCCTGTTTCAGACGACCTTTGCGCTCTTCGTGCTTGGCAATCGTTTGTTCGGCATG
GGCAAGCTGCTGCTGCTTCAACGCCAGTTCGCGGCGGATGCGGTTTGCCTCGTCCTGCTG
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 41>:

gnm_41

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 42>:

gnm_42

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TAAAGAGTTAGTATCTACCATAATATATTCTTTAACTAATTTCTAGGCTTGAAATTATGA
GACCATATGCTACTACTATTTATCAACTTTTTATTTTGTTTATTGGGAGTGTTTTTACTA
TGACCTCATGTGAACCTGTGAATGAAAAGACAGATCAAAAAGCAGTAAGTGCGCAACAGG
CTAAAGAACAAACCAGTTTCAACAATCCCGAGCCAATGACAGGATTTGAACATACGGTTA
CATTTGATTTTCAGGGCACCAAAATGGTTATCCCCTATGGCTATCTTGCACGGTATACGC
AAGACAATGCCACAAAATGGCTTTCCGACACGCCAGGGCAGGATGCTTACTCCATTAATT
TGATAGAGATTAGCGTCTATTACAAAAAAACCGACCAAGGCTGGGTTCTTGAGCCATACA
ACCAGCAAAACAAAGCGCACTTTATCCAATTTCTACGCGACGGTTTGGATAGCGTGGACG
ATATTGTTATCCGAAAAGATGCGTGTAGTTTAAGCACGACTATGGGAGAAAGATTGCTTA
CTTACGGGGTTAAAAAAATGCCATCTGCCTATCCTGAATACGAGGCTTATGAAGATAAAA
GACATATTCCTGAAAATCCATATTTTCATGAATTTTACTATATTAAAAAAGGAGAAAATC
CGGCGATTATTACTCATTGGAATAATCGAGTAAACCAGGCTGAAGAAGATAATTATAGCA
CTAGCGTAGGTTCCTGTATTAACGGTTTCACGGTACAGTATTACCCGTTTATTCGGGAAA
AGCAGCAGCTCACACAGCAGGAGTTGGTAGGTTATCACCAACAAGTAGAGCAATTGGTAC
AGAGTTTTGTAAACAATTCAAGTAAAAAATAATTTAAAGGATCTTATTATGAATGAGGGT
GAAGTTGTTTTAACACCAGAACAAATCCAAACCTTGCGTGGTTATGCTTCCCGTGGCGAT
ACCTATGGCGGTTGGCGTTATTTGGCTAATTTGGGTGACCGTTATGCGGATGATGCTGCT
GCAATTGTCGGTAAGGATGCAAACTTAAATGGTTTGAATTTATGGATGAAAAAAGGTGTG
GAAAACCTATGGGATGATACGGTCGGTAAAAAGACCCGTTTAGAGAAATTTGATCGGGTT
GCATTGCAACATTTCAGCCAATATGTAGATCTAATTAATGAAAATAATGGTAGATTACCT
AACACTAGTGAAATTGAGAGAAGTTACTATAAAGCCGTTACCGAAAATGGTGTTTCTTCT
AGTGCAGCTATTGATTTAGTTATTAATCGCTCACTTCCGGATATGGCAGATGGTTATTGG
GCATTAGGTTTGGGGATAGAAGCCGAACGTATCCACAATGAGCAAGCAGTAAATAATCCG
AACGGTAGCGAAAGGGATAATAGAAAGCAGTTAATATCTGCTTTAGATAAAGGATTTGAT
GGATCTTTTAAAGAGAAGCATTTTACTTTTTTACAATCTGTGATAATGGATGTAACAAAG
TTAGGTGTTGAATATACAATAGATGGTTGGCAAAAAATTGGAGGTTGGGGTAATGGGATA
ATCAATGATTTATATAAAAGTGTTGTAAAAAGAGAGTGGACTGGAATATTTGAGATCGTT
AATAATAACATCAAGCAATTTAGAGATCTGTTCCCAAATCCGGAAGGCTGGATCGATGAT
GGTCACCAATGTTTCGCTCCTTGGGTTAAAGAAACTAAAAAACGCAATGGCAAATATCAT
GTCTACGACCCCCTTGCCCTAGATTTGGACGGAGACGGCATAGAAACTGTCGCTGCCAAA
GGCTTTTCAGGCAGCTTATTTGATCACACCAACAACGGTATCCGCACCGCCACCGGTTGG
GTTTCTGCCGATGACGGTCTGCTTGTGCGCGATTTGAACGGCAACGGCATCATCGACAAC
GGTGCGGAACTCTTCGGCGACAATACCAAACTGGCAGACGGTTCTTTTGCCAAACACGGC
TACGCGGCTTTGGCCGAATTGGATTCAAACGGCGACAACATCATCAACGCGGCAGACGCC
GCATTCCAATCCCTGCGTGTATGGCAGGATCTCAACCAGGACGGCATTTCCCAAGCTAAT
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AATAAAAATCTCGGTAACGGTAACACTTTGGCTCAGCAAGGCAGCTATACCAAAACAGAC
GGTACAACCGCAAAAATGGGGGATTTACTTTTAGCAGCCGACAATCTGCACAGCCGCTTC
AAAGACAAAGTGGAACTCACTGCCGAACAGGCAAAAGCCGCCAATCTTGCGGGCATTGGC
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AAATGGGCGGAAACCGATTCGAACTGGGGCAAAAAATCGCCAATGCGACTTTCAACCGAT
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AAGAACGCTTTAGTTTCCCTTTCTGATAAAGCTAAAGCAGCTATTGACGCCGCCCGCGAC
CGCATTGCCGTGCTTGATGCCTACACGGGGCAGGATTCCAACACACTCTATTACATGAGC
GAGGAAGATGCGCTTAATATCGTCAAAGTAACCAACGATACATACGACCATCTCGCCAAA
AACATCTACCAAAAACCTGTTGTTCCAAACCCGTTTGCAGCCATATTTGAATCAAATCAGT
TTCAAAATGGAAAATGATACGTTCACTTTGGATTTTAGTGGTCTTGTTCAAGCATTTAAC

CATGTCAAAGAAACTAATCCGCAAAAAGCTTTTGTGGATTTGGCCGAGATGCTTGCATAT
GGCGAACTTCGTTCTTGGTATGAAGGCCGAAGACTAATGACCGATTATGTGGAGGAGGCA
AAAAAAGCAGGTAAATTTGAAGATTACCAGAAAGTGTTGGGTCAGGAGACCGTTGCATTA
TTAGCTAAAACATCGGGTACGCAAGCAGATGATATCCTGCAAAATGTAGGCTTTGGTCAT
AATAAAAATGTTTCTTTATATGGTAATGACGGCAACGACACTCTAATCGGCGGCGCCGGT
AATGACTATTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCGAAGGCTTCGGT
CAGGATACGGTCTATAATTACGAcTACGCTACCGGACGCAAAGACATCATCCGCTTTACC
GACGGTATTACAGCCGATATGCTGACTTTTACCCGAGAGGGCAACCATCTTCTTATCAAG
GCAAAAGACGGCAGTGGACAAGTTACTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 43>:

gnm_43

CCTCGTAAAAGTTCCATGCTTTTTCATGGAAATAGAAAACGACGGTGTTGATTAGGGGTT
CGACCAGCGCAACTGCTCCCGATACGCCTATACTGCCCGTCAGTACATAGGTTACACTGA
AGGCGACGCTGAAATGCAGTGCGGCAAAAGTCAGGGTTTTAAGCATCATCCTCTCCCGGA
TTGGACATTGACGGAGAGATGATAAAGATTATCATAAGGCTGCGCGGTTTAAATTTGCTA
TTTGTTGTTAGTGTAGATAAATCGTTTTTTAAATAAGGATAGGAATTATGAATCATAAAA
AGATCGTTGTTTTGGATGCGGATACTTTGCCCGGCCGGGTTTTTCATTTTGATTTTCCGC
ACGAGCTTGCGGTTTACGGTACGACAGGTGCGGATGAAACGGCAGAACGGGTGCGCGATG
CACATATTGTCATTACTAACAAAGTGATGATTTCTGCCGATATTATTGCGGCTAATCCGC
AGTTGGAGCTGATTGCCGTCAGTGCGACCGGCGTGAACAATGTCGATATTGGGGCGGCGA
AGGCGGCCGGTGTTGCGGTATGCAATGTCCGCGCATACGGAAACGAATCGGTTGCGGAAC
ACGCCTTTATGCTGATGATTGCGTTAATGCGGAATTTGCCTGCCTATCAGCGTGATGTTG
CGGCAGGATTGTGGGAAAAGTCGCCGTTTTTCTGCCATTACGGCGCGCCGATTCGGGATT
TGAACGGCAAAAACGCTGGCGGTTTTCGGACGCGGCAATATCGGACGGACGCTTGCCGGAT
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GTCCGCTAAACGCCCAAACTGAAAATATGATAGGCGAAAACGAATTGCGGCAGATGAAGC
CTGGCGCGGTTTTAATCAATTGTGGGCGCGGCGGGCTGGTGGATGAAAACGCGCTGCTTG
CCGCACTCAAATACGGGCAGATCGGTGGGGCAGGTGTCGATGTTTTGACGAATGAGCCGC
CCAAAAACGGCAATCCCTTGCTGAATGCACGATTACCCAATCTGATTGTTACGCCGCATA
CCGCGTGGGCAAGTCGTGAGGCTTTGGACAGGCTGTTTGATATATTGTTGGCGAACATTC
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AAAAATGCCGTCTGAACGCCTCAAGGGTTCAGACGGCATTTCTTGAGATTCCCGTTTAAC
CGACTTTGTCGCCCGGCTGCGCGCCTGTATCCACATCCAAGAGCTTCAGTTTCCCGTCTG
CCGTGGCGGCACTCAAAATCATGCCTTCAGATACACCGAATTTGCCATTTTGCGCGGGG
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CGGCGATGCCGGAGAAGATGATGCGTTTTTCAAAACCGAAATCGAGGTCGAATTTCAAAA
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TCATAAAGTCGTCGAAACTCGCCTGTTCGGCGACTTTTTCGTATTTGCCCTCTTCGGCGG
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TTTGCTCCACTCGTTGCATTAAATGTTCGTATTTGTTGATGGCGTGTTTGCCCAAGGTAT
CGCGTGTATTTGCCCAAGTGATGGCTTCCAAATTCAGGAATTTGGCGGCGTTTGCGGCGG
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TGCATACTTCGTGCAGGCGTTCGTCTTGGCCTTCTTGTTTGGCGAGTTCCCACGGCTTGT
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GCAATTCGCTGTCGGCAACATCTTTCAGACGGCCTTCAAAGCGTTTGGCGATGAAACCTG
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AGTCTTGCAGGTTCAAATCGATGTCTTCGATTTTGCTGTTGAGTTTGGCGGCGATGTAGT
AGCGCATCCACTCGGGGTTCAGGCCTTGTTCCAGATAGGATTTGGCGGTAATAAACGTGC
CGCGCGATTTGGACATTTTTTGTCCGTCGACGGTCAAAAAGCCGTGTGCGTACACGCCGG
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CGTCCAGCCAGACGTAGAAGTATTTGCCCGGCGCGTCGGGGATTTCAAAACCGAAATACG
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CTTTCATTTTGTTGAGGGCTTCGGCTTGCAGATGGGGCTTGCCGTCGTGCGGGTTGTTGC
CGGAAGTCCATGCTTTGAGGAAGTCGGCGCATTCGCCCAGTTTGAAGAAGAAGTGTTCGG
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TCGGGCATTCGCCTTTGACGAAGCGGTCGGGCAGGAACATTTGTTTTTCGGGGTCGAAAA
GCTGCTCGATGACGCGGCTCTCAATCTTGCCGTTGGCTTTCAGCGCGCGGTAAATGTCTT
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CCGCGTGCGAGGGCGGTGTGGTAGGCGAGGAGCTGCACGGGGATAGTATGCACGACGGGG
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TTGCTGTCGAGGTCGGCAAAGACGAAAAGTTCGCCGCCGCGCGCGCCGACTTCCTGCATA
TTGGCTTTGACTTTGTCCAACAGGCTGTCGTTGGGTGCGATGACGACGACGGGCATATTT
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ATGTAGGTGATTTCCTTCAGCTTCAACGCACCTTCGAGGGCAATCGGGTAATGGATGCCG
CGCCCTAAAAACAGCGCGCTGGTTTTCTTGGCAAACTGTTGCGCCCATGCGGCAATTTGA
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AACAGCGCAACCAGTTGCGTGGTAAACGCTTTGGTCGAGGCGACGCCGATTTCCGCACCG
GCACGGGTATAAAGCACGAGGCTGCTTTCGCGCGGCAGGGCGGATTCCATCACGTTGCAA
ATGGAGAGGCTGTGGCGGTGTCCCAAGGATTTGGCGTATTTCAACGCCTCCATCGTGTCC
AGCGTTTCGCCGGATTGGGAAATGGTAATGACCAGTTGGTCGGAATCAGCAATCACGCTG
CGGTATCGGTATTCGCTGGCGATTTCGACGTCGGACGGGATTTTTGCGATGGATTCCAAC
CAATATTTGGCGGTCAGCGCGGCGTAATAGGACGTGCCGCAGGCAAGGATTTTGACGCTG
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TCGAGGAAAACCTCCGCCGTGTCTGCAATCGCGCGGGGCTGCTCGTGGATTTCTTTTTGC
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TTGCGTTCGGCAGGCAGGCCGTTTTTATCGGTCAGCCTTTTGATGCCGTCTGAAGCCAGC
AGCGCGATGTCGCCGTCTTCGAGGTACGCCACGCGGCGCGTAAAGGCGATGACGGCGGAT
ACGTCCGAAGCGATAAAGGTTTCATCGTCGCCCAAAGCGACCAAAAGCGGGCAGCCCATA
CGCGCCACAACTAATTCATCAGGCTTGTCTTGGGCAATAACCGCGATGGCGTATGCGCCG
TGGAAACGTTTGACCGCTTCTTGTACCGCTTCAAACAGCCTGCCGCCGTTTTGCGCGTAT
TCGTGATTGATGCTGTGTGCGATGACTTCGGTATCCGTTTGCGATTCAAAACGGTATCCC
AAACCTTCCAAACGTTTGCGTTCGCTTTCAAAGTTTTCGATGATGCCGTTGTGTACGACC
GCAATCATACCGCCGCTGATGTGCGGGTGGGCGTTCGGCTCAGTAACGCCGCCGTGTGTC
GCCCAACGCGTATGTCCGATGCCGATGCCGCCGCTGATGCCTTTTTCGCGTGCCGCGTCC
TCCATAAGCTGCACGCGTCCGACGCGGCGCACACGTTTGATTTTGCCGTCGGTGTTGACG
GCAATGCCTGATGAGTCATAACCCCGGTATTCGAGGCGTTTGAGACCGTCGGTCAGAAAA
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TATCCGGTTGAAAAAAAACAGGCGCGGACGGCTTCCGTGCCGCACCTTCCTCTTCGGATT
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GCTGTATGTCGAACGTAGGCAGTATGTCAAAACCGATGCGGCGATGAAGGACAAAATCAT
CGCCCATCAGAAAAAGTGCGGACAAACAGCACAGGCATACCGCGACGCGCGAAATGCGTT
GCCGTCAAACCAGACGTATCAGCAGCATCTGGCGGCGATCGAGCAATTGAAACGGCGGTT
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GTTGCTTTAGTAGGGGACAACCGGGAGGATGCCGCCGTCCGAATCGGATGTGCGGTTTCT
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AGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCT
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TCGCAAAACTTCGCCTTAATGCGCCCGATTGCCTAGGGATGGGCTTCAGATGGCATTGTT
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CCACGCGCACCGCGCCTTTAATCGCGCTGCCGGTATCCTGCGCCATAATCAGGCGGTTGA
GGGCTTTGCGGGTAACCGGATGGGCGGTGGCGACAAATAAGGGCGCACCCAAGGTAATGT
AGTGCCGGTCGACTGCGCCGGCATATTCCCCCATCAGCGGCGTGCCCAGTGCGCCGACAG
GGCCGTCATTGCTGCTTCCGGCAAGCTCGCGGAAAAAGATATAGCTGGGGTTTTGACCCA
AAACTTCGGCGAGGCGTTGCGGATTTTGCCGCATATAAGACTTAATGCCCTGCATGGAGG
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GGGCTTTGCCGTCAAGCGCGCCGCCGTTGATTTGGTTGCGCGTGTGGTAGGGGAGGAAGC
GGCTTCCTTCAAACCTGCCTTTGATTGCTGTTGTGCGCGCGGTGATGGGGAATCGGGAGA
GGTCGGCGGTATGTGTGCCGCCGGTATTGTCGATTGTGCCGCTGTTTTTTCCCGTCTGCC
TGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAGGCAGGGGGACGGAGATAAAAT
CGTCGGGAATACCGTAAATCGGAAGCGGGCTTGTGCCGTCCGCCTGTCGTCGCCCTTCA
GCACCGGTTCGTAATAGCCGGTAACCGTACCGGCAAGGCTTCCGTTGCCTGCAACCTGCC
ACGGCGTGAAATAGCGTTCAAAAAACTGTTTTGCCTGAAAGGAATGGACGGGGGTTTGAA
AGGCTTGGGCGCACACATCCTGCCAGCCTTGGCGGTTTTTCAAATTGGCGCAGCCGAGGC
GGAAGGATTGCAGGCTTTTGGCGAAATCCTGCGCCGCCCAGTGGGGCAGGGACAGGTGCG
GTACAACGGTATAGACGGCCCCGCCGCCGCCGACCGTCGTTCCGGCGGGGTCGGGGATGC
CGACCGGCCGGTCCGGGCCGTTGATGACGGATGTGTCGGGTTGCGGAAAGGTTTGGATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 44>:

gnm_44

CCGGGTTAAGAAATTGTACAAGCGGACAAAATATTTAATGGGTATCAAAGAATGACCTAC
CGTGAATTAGTTGAACGTCAGTTGGCTGTGCGCCATGCCGATTTGGAATTGGGCTTAAGC
CGCGCACGCGAGCAAGAGCCGTTTGTCATTCATGTTTCCGATCTGTTGGATAAGGCAGGC
ATTGAGTACGCGGTACGCATGGATAAGGATTTTCAGACGACGTTTCACCTTGAATATCCA
ATTACGAACTATGACACCTTTAAACGTGCGGTTTGGCAAACTTTGGGGGCGTATTACTGT
GTTTGTAATGATGGTGATGGACTGGAGATTGCCAGCAATCGCCCTGACGGTTACGCCGTC
CGTATCGTATTCGGCGATGTGCCGGTTTAAAGGGGTTTTAAATGGACTTTGAATTTGGTT
TCAGAACCCTGTGGCCGATTGCGACGGCGGCATTTTGGTTTTGGGTCAACGGCATTTCAG
GCCGCCTGAAAGAGGCGGACAAGCGTATCGACGACCTTAAAGAGGAGTTGCACGCGGTCA
AGCTCTCTTATCACACCAAGGCGGACGCCAAGGCAGACAGCACTAATATTGCGGCGGCCT
TGGAGCGAATTGAAAACAAGTTAGAAAAAGTAAACGAAAAACTGGACAGGAAAGCAGACA
AATCATGAGCGACCCGATTTTGGATGCCTTGGCGCGTATTGAAAACAAGACTGATCAAAC
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CGGCTCTATGTGAGCGGCGAGCAAACTTTGGAAACGGCGGCCTTGATGTGCGAAATCCCG
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GCCGGTTTTATGGTGCAGTACAACAGCACGATGACGATGCTGCAGGATTCGAGTACCGAA
GATTTGCCACCATCCGACCGCGCCAAGCTGTTGGCCAGCCTGGCCGATGCGTTTACGAAA
ACCGTATCGGCCAATGCGCGTGTGATGCCGGAAACGTCAAAACTGGCGACGGCTTTGGAA
TTGATTGAGTTCTTGATGGCGTTTGTACAAGAAAAACATCCCAAACATTTGCCTGCCTTT
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AATTTTTTTAAAAGAGTAATGAGGGTGGCGGCAGGGATAGCATTAATTGCATTTTCCGTA
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AAAGAACAATAAAACTAAAATCCAAAAGCCCGAAGCTGCATTGCAGACGGACGTGGCTCA
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GCTGTCCGACCAAGCCTACGAAATGATGGACAGCCTGCCTACCCTCGAAGACCTGATTAT
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CAAAGACAACGGGCTGCTGCTGCGTACCCGCGAAAATCCGGAAGGCGAAGCGTTGTGGCC
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TTTCCGCACGCTTTCCTGGCTGTATATGTTCAAACACTACGCCGTCCACGATTTTGCCGA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 45>:

gnm_45

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AACGCAATGGAAAAGAAACCGGACAAAAAACGCGCCGCGCCCCTGCCGATTTTCGGAGTC
AGACCGTGGGTGATGTAGAACGCCGGCCCGCCGATGTATTTGCCGTGGCTGACGACGCGG
TATTTCTGCGCCAGCAGTGCCTCCGCAAAAATCGTGGACATCCCCAAAACGGCAGAAACC
CACATCCAAAAAAATCGCGCCCGGCCCGCCTGCGGTGATGGCGGTCGCCACGCCGGCAACG

TTGCCCGTACCGATTTGCGCAGATATGGCAACCGCCAACGCCTGAAACTGCGATAAAGAC
TTGTCGTCTTTATCGCCTTTGGCAAACAAGCCGCCGAATACGGATTTGAATCCCGCGCCC
AGCTTGGTAATCTGCGGCGCACCAAGATACAGCGTAAAAAACAGGCCGATACCCAAAAGC
GCGTAAATCAGCAGGTAGTCCCAAAGGAACCGATTGACTGTACCCACCAGAACAGACAAT
ATATTTTCCATAAAATAAACCTTATCTTACAATTAAAATGACTGCCTTCCAAAAGACATT
CCAATAAGGAAACACGGCGAGCAGACCGTATTTGCCGCAACAGATGCCTTAAATTGTCAA
CAATCGGGGAGAAGCTGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 46>:

GNMAA91R gnm_46

CCTTCGACCAAAACGACTTCGTACTGCGCCGCCAATTCTTGTGTGGCGGTGCGGATTTTG
TCCAAGTCCAAAGCCCTGCCATCCAGTCGGGCGGCGAGGTGAGGCGAAnGGnGATAGCTG
AAGATTTCGGGCATAGTCAGCCGCCGTTTGTCGGCTTCCTGCATCGGTATGCCCATAATT
TTGCGGTGGACGGCGATGTCGTCGGCCAATAACCTCATGATGGAATAGTACCGTTTTTCA
AAGGTACTTTAATCATAGAGCGTCGAGCTTGATCCATTGCTTTTTGAACAGCAACTGGTA
CTTCTTTTGATTTACCTTTGCCCATACCAATGnGACCATnACCATCAACCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 47>:

gnm_47

TTTATTATGCTGCCTTTCCTGCTGTATTTCCTGTCCGGTACCCTGAGTCAAGAGTCTGCA
TTTGAAACTTACCGTGCCATTGTTTCCCATCCTTTGGTCAAGCTGGTTTTAATCGGTGTA
TTGTGGGCTTATCTGCACCATTCTCTCGCCGGTATCCGCTTTTTATTTTTGGATGCGCAC
AAAGGCCTTGAGCTGAATACTGCGCGCAATACCGCTAAAGCCGTATTTGCTTCTGCATTG
GTTTTGACTGTCGTTTTGGGAGCGTTGTTATGGTAGAACGTAAATTGACCGGTGCCCATT
ACGGTTTGCGCGATTGGGTGATGCAACGTGCGACTGCGGTTATTATGTTGATTTATACCG
TTGCACTTTTAGTGGTTCTATTTTCCCTGCCTAAAGAATATTCGGCATGGCAGGCATTTT
TTAGTCAAACTTGGGTAAAAGTATTTACCCAAGTGAGCTTCATCGCCGTATTCTTGCACG
CTTGGGTGGGTATCCGCGATTTGTGGATGGACTATATCAAACCCTTCGGCGTGCGTTTGT
TTTTGCAGGTTGCCACCATCGTTTGGCTGGTCGGCTGTCTCGTGTATTCAGTTAAAGTGA
TTTGGGGGTAAGTATGGGTTTTCCTGTTCGCAAGTTTGATGCCGTGATTGTCGGCGGTGG
TGGTGCAGGTTTACGCGCAGCCCTCCAATTATCCAAATCCGGTCTGAATTGTGCCGTTTT
GTCTAAAGTGTTCCCGACCCGTTCGCATACCGTAGCGGCGCAGGGCGGTATTTCCGCCTC
TCTGGGTAATGTGCAGGAAGACCGTTGGGACTGGCACATGTACGATACCGTGAAAGGTTC
CGACTGGTTGGGCGACCAAGATGCGATTGAGTTTATGTGCCGCGCCGCGCCTGAAGCCGT
AATTGAGTTGGAACACATGGGTATGCCTTTTGACCGTGTGGAAAGCGGTAAAATTTATCA
GCGTCCTTTCGGCGGCCATACTGCCGAACACGGTAAACGCGCGGTAGAACGCGCCTGTGC
GGTTGCCGACCGTACAGGTCATGCGATGCTGCATACTTTGTACCAACAAAACGTCCGTGC
CAATACGCAATTCTTTGTGGAATGGACGGCACAAGATTTGATTCGTGATGAAAACGGCGA
TGTCGTCGGCGTAACCGCCATGGAAATGGAAACCGGCGAAGTTTATATTTTCCACGCTAA
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CAGCATGATTAAATTCATCAAAGAGCAAAGCGACTGGAAACCTTTGCCTGCTAATGCAGG
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CGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 48>:

gnm_48

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 49>:

gnm_49

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AAGGCATTAGTGCATTTAAGCGTCAGAGCATGGCTTTATGCCGAGAAAACTATTGGTTGG
AATGGCGTGTGTGTTAGCCAAAGCTTGATATCGAATTCCTGCAGATAAATATTCTTGGTA
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CTTTTTAGTAGCATAGCAATCAAGCCAATCCGGATCTGCTATTTTTGGGGAAGTGAAATC
TATTTGATCAAAATAAACTAAAACCCCACTACCTAAAAAATGCTGATTTGCATAGGATTT
AGAAAAGCCTAAGTCTGCAACAACACCAACAGGGATACCCTTACATTCAGCTTCAAAAAG
CATAGTAGATGAATAAGATAAACAATACCCCATTTCTTGGAAGGCTTGCGCGGTACTTTT
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AGCATGGCGAAAAAATTGGATAACCATAAAGTATATTTTGACAACTTAATTTATATTGTTT
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CATACGAGATAGAATACTTGCCTGATCACCGAATACTACACCTGGAAACAAGGTAATAAT
CAATGGCCTTGAAGCAATATTTAATTGCGCATTCTGCTTAAAGAACCTTTTTAACAACCC
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ATCAATATGAAAAAAAAAATTGCTTGGTCTTTATCTATCCCTGATTCTAATAACTGTCGA

TTTGAAAGAATGTTTTCTCGACTTTTGTGGATATAAATATCAATTTGAGCATCTTTTATC
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TTTTTCACTATTTTCCCTTAATTCTACACCATATGAATAAAATTATAGTATTTTACCTTA
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CATTGTGTTCAGTTCTTCGGCGACGGTTTATGGCGATCCGGGCAAAGTGCCTTATACCGA
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TTAAGTTGACCTGATACAGGCCGTCTGAAAGAGATGTTTTCAGACGGCCTCTTTATCTGA
AAAACACACATTCTGTCTGCTATAATCTGTTTATATTTTTTGGCTATCCTCTGAAATTTA
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TGCAAATCCGCGACTGGCTGTTTGTCGAAGACCACGCGCGCGCACTGTATCAGGTTGTTA
CCGAAGGTGTTGTCGGCGAAACCTACAATATCGGCGGCCACAATGAAAAAGCCAATATTG
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CGGCTTGGCACAGGCATTTATCATCGGCGAAGAATTTATCGGCAACGACAATGTTTGCTT
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AGCGCAAACGCACGGCGCAACCGTGTTTGCTTATCAGGTCAAAAACCCCGAACGTTTCGG
CGTGGTTGAATTTAACGAAAACTTCCGCGCCGTTTCCATCGAAGAAAAACCGCAACGGCC
CAAATCCGATTGGGCGGTAACCGGCTTGTATTTCTACGACAACCGCGCCGTCGAGTTCGC
CAAACAGCTCAAACCGTCCGCACGCGGCGAATTGGAAATTACCGACCTCAACCGGATGTA
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CGGCACCCACGAGAGCCTGCACGAAGCCGCTTCATTCGTCCAAACCGTGCAAAATATCCA
AAACCTGCACATCGCCTGCCTCGAAGAAATCGCTTGGCGCAACGGTTGGCTTTCCGATGA
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CCTGTTGAAAAAATAATGTTTGAGGCCGTCTGAAACTTTTCAGACGGCCTTTAGATGAAA
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GTCTTCGGCGACGCGCGCGGCTTTTTATGGAAACCTTCCGCGACGAGTGGTTTAAAACC
CAAGTCTGCGAACGCACCTTCGTGCAGGAAAACCACTCCAAATCCGGCAAAGGCGTATTG
CGCGGCCTGCACTATCAAACTGAAAACACACAAGGCAAACTCGTACGCGTGGTTGTCGGC
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GGCGAAATTCTGTCCGCAGAAAACAAACGCCAACTGTGGGTACCCGAAGGTTTCGCACAC
GGCTTCTATGTACTGAGCGATGAAGCCGAGTTCGTCTATAAATGCACGGACTATTACAAG
CCTGAAGCCGAACAGGTTTTAATATGGAACGACCCGACAGTCGGCATAGGCTGGCCGCTT
CAAACCGCGCCGCTGCTGTCGCCCAAAGACCTTGCCGGCAAAACGTGGGCGCAAGCCGAA
AAGCTCCGCCTTCCGCTTTACCGATAAAAAATGCCGTCTGAACGTTTCAGACGGCATTTT
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CGAAGAACGCCAAACCCAGCCAAGAAGCGGCGGCATCCCAGTTTTGCAGATTCAACGCGA
GCGGCGCATCCGAGCCGCCGTTGGTCACGGAGAAGGCAATAATAAACGCCATAATCACAC
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TTTTCAGACGGCCTTCGCGGTTTTCCGCTTTTTACCGATGATGTGTTTCAACACCGCCG
CCAACACCGCGCCTGCCACGATGGGCATATTGACGGACGGCGGCAGATAAATACCCATAC
CGACCGCAAGGACGGGCAGGGCAAGTTTGCCGCCTGATGATTTTTTCAACACCAAATCGA
CGACGATTAATACTGCTCCAATCACGATACCGGTAAAGATATAGACCCATTCAAGGTTGT
GGGCGAAAATGCCCGACGCGATGGTCGTCATCAAAGTCGCTTGAGGGGCTGCCAAAGCCT
GCGCCGCGTCCATGCCTTCGCGCGGCATTGCGCCGGTAAAGCCGTAGGCTTCGTAAAGCA
GTTCCAACACGGGCGAAATAACCAGCGCACCAACGATACAGCCGATAATCAGGGCGACTT
GCTGCCGCCAAGGCGTGGCTTTGAGCAGGTAGCCGGTTTTCAAGTCTTGCAGGTTGTCAT
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CCAAACCTGCCATATAACCGCAGGCGGCGGCGACCAAAAAGCCGATGACGGAAGCCAAAA
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TAGGCGACAAATCCTGTTCGGCGCGTTCCGCAGCGGGCGCACCGCCGCCAAAACTCTTGA
ACGACATCTTCATGCCTTCCACCATCGGCTTGAGCAGCATCAACAGCGTCCAAACCGCCG
CAATGCCAATAGTCCCCGCACCGATAAAACGCACTTTCTCCTTCCACAGCTTCATCGCAA
ACGCCGCCATTTCCATATCGGAAGGTTGCGGAATGTGTGAGGAGAAATACGGCACGGCAA
TGCCCCAAGCAATCGAAATGCCCAACAGGATGGCGATACCGCCCGTCAGTCCGACCAAAT
AGCCCGCGCCCAACAATGCCAGTGAAAAGCCCATCGGCAGCTGGAAAATCGCCGTACCGC
TTTTAAACCAATAACTCGCGCTGTCGGCAATCACGCGCAGACCTCCGGCGCAAAAGCTCA
TCAATCCCGCCAACGCACCGCCGGCCGCCAGCTCTTTGATGCCGTGCTGCCTGACGGTTA
TCCCCTTCTTCATGACCGCCCACTTTCAAAATTTCAGCAGCCGCCACACCTTCCGGATAA
GGCAAATCGCTTTTCACCACCATTGCGTAACGCAGAGGAATGGTGAAAATCACCCCCAAA
ATCCCGCCGGCAATACATAAAAGCGTCGTCTGCCAGAACGGGAAACCGCTCCAGTAGCCC
GCCATTCAGCAAACCGGGCAGGACGAAGATGATGGTCGAAAGCGTACCCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 50>:

GNMAB22R gnm_50

AATGAnCGGCGGCAGGCTGGCGACCGCGTATCCATACTTTCCGTCATGATTGAAGACAAT
CCCGACATACCGCAGCTTTGGGCGCAATGTTCGATTTTnCCTCTATCCGGTTCCGTATCG
AAAAAACAAGGGGCTGTACTAGATTAGCCCTAAATCCCACACCAATCCCGCAGATTTTAA
GCTGTTGAGACGGTGTGCCGAAGTTAAATCGAAATTCGCATTCTTTCAAGAACAGCGGGA
AAGATTTACGATCGATTCCGTTGTATTTTCGCAAGACGCGTTTAGTCTAGAGTCTGTATA
TTACATTATTTTTAGGGTCTGCTAGCCAATTTCTTGTTCCCTTCATTATTTTATCTTCTG
AAAGAAAATTATTTTTTTCCATGCTATTAATATTAATGATATGATTTTnATTTAAAATAA
ATGTTTn

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 51>:

gnm_51

ACAATTTCTCCTGCAGCGCCGATGATGTTTTTAACGATATCTGCAGTGCCGTTGAAGGCT
TCGGCGGCATTGCCCGATCTGTCCAGCTCGGGGCTGTATCGGGTGGCGCGTTTGAATCCG
TCGCCTACTCCTTGCGTCAGCATACTACCGGCATTGTGGAAACGGTCGGCAAGCCGTTGT
CCGGTGCTGCGGTTGTCGGTCAGGTTGAGGCGGATATTTTGGGCAACGCCTTTTATGTCG
TAGCTGTATATATCCCTCGCGCCTTTGGGAGCGGGATAGCCGCCGCCCTGTGGCCCGTCA
TAGCCGTCGGCGGGATGGTGTTCGTATCCGTCCCAATGGATGCGGTAAAGGCTAAATCCG
TCAACGGGACTACCGGCTTCATCAGAATCGGAATGTGAGGCATGGTTGTCGAAGGGGGAA
TGGACTTCGTGCCCGTGATCGGAAAAGCGGACAATGTAGCCGATATTTCCTTTAATGGCC
GCCTGTTGAATCATCAGGTTGCCCAACTGATGGCTTTGTATTTTTCCCAATCCGATATGr
ccGaCTGCGCTCGGCAAGTTCCCCCCTGCTGCCGAATAGGTGGTATTTCCCGTCGGGTTC
GAAATGCTGACGGTCGAGAACCTGCCGGATAAAAGAATCGTTTGCCAAATCTGAGGCGTG
TGCATGCATCGGCAGGCACACTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 52>:

gnm_52

GCTTGCATGCCTGCAGGTCGACTCTAGAGGATCCCGAAACGCCGTGAAATCGGTCACGGC
CGTTTGGCTAAACGTGCATTGTTGGCCGTATTGCCGAAACCTGAAGATTTCAGCTACACC
ATGCGCGTGGTCTCCGAAATTACCGAATCCAACGGCTCTTCCTCTATGGCTTCCGTCTGC
GGCGGCTGCCTGAGCCTGCTGTCTGCCGGCGTGCCTTTGAAAGCACACGTTGCCGGTATC
GCGATGGGTCTGATTCTGGAAGGCAACAAATTTGCCGTCCTGACCGACATTTTGGGCGAC
GAAGACCACTTGGGCGATATGGACTTTAAAGTGGCCGGTACGACCGAAGGCGTTACCGCG
CTGCAAATGGACATCAAAATCCAAGGCATTACCAAAGAAATTATGCAAATCGCTTTGGCA
CAGGCCAAAGAAGCGCGTCTGCACATCTTGGATCAGATGAAAGCCGCCGTTGCGGGCCCG
CAAGAGCTGTCCGCACACGCGCCACGCTTGTTCACGATGAAAATCAACCAAGACAAAATC
CGCGAAGTTATCGGTAAGGGCGGTGAAACCATCCGTTCGATTACCGCTGAAACCGGTACG
GAAATCAATATTGCCGAAGACGGTACGATTACCATTGCCGCAACCACTCAAGAAGCCGGC
GATGCGGCGAAAAAACGCATCGAGCAGATTACTGCCGAAGTGGAAGTGGGCAAAGTGTAC
GAAGGCACTGTGGTGAAAATCCTCGATAACAATGTCGGCGCGATTGTCAGCGTGATGCCG
GGCAAAGACGGTTTGGTACACATCAGCCAAATCGCCCACGAGCGCGTACGCAATGTCGGC
GACTACCTGCAAGTCGGTCAGGTGGTGAACGTGAAAGCATTGGAAGTGGACGACAGAGGC
CGTGTCCGTCTGTCCATCAAAGCCCTGCTGGACGCGCCTGCCCGTGAGGAAAATGCCGCC
GAGTAACGCTTAGGGTGAAAGTGCCGTCTGAACAGGTTTCAGACGGTATTTTTTACGGGT
ATCGGGAATGAATGGGGCTTACAGCCACAGGACGGCAAGTTTCCATAATGCCCATAATGA
TACGGATAATCCCGTACACAGGCGGATATATCGGTTTTGCATGATTTTTTTCAGTTGCAG
GGAAAAAATGCCGATTGCTAAAAGATTGGGCAGCGTACCCAGTGCAAAGGCAAGCATATA
TAACCCGCCCGTTGCCGCACTACCGCTTCCCAGCGCGTAAAGCGACGCGCTGTAAACCAG
TCCGCACGGCAGCCAGCCCCATAATATTCCGACCGCAAGGCAGGCGGGTATGGATTTTAT
GGGTAACAGCCGGTTGAGTATCGGGTTCAGGTTCCGCCATATCGGTTTGCCGATTTTCTC
GATTTTTGCCGCCAAGGAAGAAATACCGCTCAAGTATAAGCCTAAAAAGAGCAGCAGGAG
GTTGGCGGCCGTGTATAAAATATTCTGCAGGACGCGGGTTTGGTCGAGTGAAACGCCGAC
CTGTCCGATTAATCCGAGTATCAGGCCGATTGCCGTATAGCTGCTTACCCGTCCTGTGTT
AAGCAGCAGGATCAGCCAAAAGCGGTTGATATGCGGGGGGAGTTGGAGCGCAAACGCGCT
GCTTAATCCGCCGCACATACCGATGCAGTGCGTTCCGCCGAAGAAACCGAGTAGGAACAG
GGTGAGGAAAGTGATGTCGTGGTTCATAGGCAGTTTGAAGTCAAATATTTTTCGGGAAAA
GGGATGATTTGCGGCAGTCCGGCACATAGGATCCGCCGAGGGCATTGCCCGTGCTGTTAA
AGTCTTGAATAAGGATGCAGTTTGCACCCTGTATTTCGATAATTTTGTAAAATCCGCCCT
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AACAGTATAATGGCTGATTTTAATCCTCAGGCGGCGGGAGATGGAAGCATTTCCCTTCGG
TGCGGGGGATTTCGGATTCGGAAGCAACAGACGATACGGGATTTCGGAACAATATGAACA
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GTCAGGATTTTACCCCCGAGGACGCGCCGATTGCGGAATGGGCGGACCGCTTCCGGGGCG
TGGGCTTCGACCAGCTTTTGGTGGTCGGGCGTTCGGAAACCGAAGGCGTGGATTTCCGTT
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TTGCCCGTTTTGTTGCAGACAAGGGTTTGACCGATAAGAAAGAAATTTGTGTTGAAACGG
CAAATGGCGTTATTTTTCCGAAATTGTCCGATAACGGTATGGTTACGGTCAATATGGGCA
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GCAACCCCCATGCGGTGATTGTGGTCGATGACGTGGAATGCGCGCCGGTGCGCGAAACCG
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TTGTCGGCCGAACCGCGATTCGTTTGCGCGTGTTCGAGCGCGGCGTGGGCGAAACCCAAG
CTTGCGGTACGGGCGCGTGTGCGGCTGTGGTGGCGGGTATCCGTCTGGGGCTGTTGGATG
AAGGGAAAACGGTAGAGGTGGTTTTGCCGGGCGGGACTTTATATATCGAATGGGCCTGCG
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CATGATTTTGCTGCATTTGGATTTTTTGTCTGCCTTACTGTATGCGGCGGTTTTTCTGTT
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CTTGTTCATCCCCCATTTTTACCTGACTTTGGGCAGCATATTTTTTTTCATCGGGCATTG
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TTATTGCTTTTCGGGAACGGTTCAAGTGTTTGTGTTTGCGGCACTGCTCAAACTTTATGC
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CGGGTTGACGGCAGCGTTGATGCAGGTCTCGGTACTGGTGCTGCTGCTTTCAGAAATTGG
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CGCCTTTGGTCAAACTGAACCGTCTGACCGAAGGTTTGAAGGCAGAGGTTGCCGTGAAAC
TGGAATTTTTCAATCCGGGCAGCAGCGTCAAAGACCGCATTGCCGAAGCAATGATTGAGG
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CCACCGCAAAACAACCGCCGAGGAAATTTGGCGGGATACGGACGGCAAAGTCGATGTCTT
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CGGTAACGGCAAAAAATATGCCGCACCATTGCTGGTGCTGGGTTGCGTGGTGTTCGGTCT
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GCTGATTTCGGTGTTCGTATTTTGGTTTTTAGCACGGTTTTTCAGGCAAAAAATTCCCAAA
AAACAGGAAAAACCGTCCGATATGCCCTGACGGCGGGCGTGTTTCTCGCTTTCGATTTGGC
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GAAAATCAGGAAAACGGCGGTAAAGCTCATAAACAGGGACAAAGCGGCAAACACGCCGAC
CGCTGTCAGGATATAGGCGTATTCAAGGCCGGAACTCCATTCCCCGTTTTCCTGCCGCTT
CTTGTCGCTTTTGAAATAAAGGATGATGCCGGCAAGCAGCGCGGCAGCCGCGCCCGACAT
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TCGCCAAGAACGCGCTTTGCGGAATTTCCACATTGCCCACTTGTTTCATACGGCGTTTAC
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CCAAGACGTTTTTACGCAGTGCTTTGACGTTTTCGCGGGCGATAATCTGGCTGCCGATGG
CGGCTTGGACGGCAATGTCGAACATTTGGCGCGGAATCAGCTCGCGCATTTTCGATGCTA
GCTCGCGGCCTCGGTGAACCGCGCTTTGACGGTGCACAATCAGGCTTAAGGCATCGACTT
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GATAATCCAACGAAGCATAGCCGCGCGAAGTGGATTTGAGTTTGTCGAAAAAGTCCATCA
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GCACAAGGATGGTCGCGGTAATAATCGGCTCGAGTATGGTTTCGATGCTGCCGATGTCGG
GCAGTTTGGACGGATTTTCGACTTCGATTTTTTCGCCGCTTTTCAACACGACTTCATAAA
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TGTCGGCAATGAGGGTTTCCTGTCCGGCGGCTGCTTGTCCGAATTTGAAATCTTCAAGAA
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AAAATTCGTACTCGGCGGTATTGCCGCATTGGTTTTGGCGGCCTGCGGCGGTTCGGAAGG
CGTGCAGCGGAGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 53>:

gnm_53

CGGAAAGAAGATCTCATATTTCCTCAACAATAAACAGTCAGACAATTAGGAAATATACT
AGCATTTTTTTCAGGCGGCATAAACATTAAAAAAGTGTAAATTTGATATACCGTCTGAAG
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CTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTGTTT
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GGCATCTGCAGCCGTCATTCCCGCGCAGGCGGGAATCTAGTCGGTTCGGTTTCAGTTATT
TCCGATAAATGCCTGTTGCTTTTCATTTCTAGATTCCCACTTTCGTGGGAATGACGGTTC
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 54>:

gnm_54

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GTTTGCCGATGATACATTCGGCAAGGCCTTTCATGGGTGAGTCCTGGTTGTAGTATTCGT
CGCGGTACATGAACATAATCAGGTCGGCATCCTGCTCGATTGCGCCGGACTCGCGAAGGT
CGGACATCATGGGGCGTTTGTCGGTACGCGATTCGACCGTGCGGCTCAATTGCGACAGGG
CGATGATGGGGACTTGCAATTCTTTCGCCAACGCTTTGAGCGAACGTGAAATCTCTCCCA
GCTCCGAAGCTCGGTTGTCGGAACGGCCGGATCCTGCCATCAGTTGCAGGTAGTCGATGA
CAATCAATCCAAGCTTATTGTTAAATTGACGGGCGAGACGGCGGGCACGGGCGCGCAGTT
CGAGCGCGGTCAGACCCGGGGTCTCGTCGATGTACACGGGCGCGTCGGAGAGTTTGACGA
CTGCTTCGTTCAGGCGACCCCAGTGTTCGTCTTCGAGCCTGCCGGTTTTCAAAACGCTTT
GATCCAACCGTCCGACCGAGCCGAGCATACGCATGACCAGTTGCGCCCCGCCCATTTCCA
TCGAGAAAACAGCAACGGGCAGCCTGCCTTCTACGGCAACGTGTTCGGCGATATTGATAG
AAAAGGCGGTCTTACCCATAGACGGACGACCGGCAACGATAATCAGGTCGCCGGGTTGCA
GACCCGAGGTTTTTTGTCGAGGTCGATGAACCCCGTCGGCACGCCGGTAACTTCATCGG
GATTGTCGCGCGAGTAGAGCATATCGATGCGCTGTACGACTTCTTTCAGCAAATCGGGCA
TCTCCAAAAAGCCCTGCTTGGATTTGGCGGTGCTTTCGGCGATTTGGAATACTTTGTTTT
CCGCCTCGTCCAAAAGCTGCCCCGCGTCCCTGCCTTGCGGATTGTATGCGCTGCGGGCGA
TTTCCGTCCCCACTTCGGCGAGTTGGCGCATAATGGAACGCTCGCGCACGATTTCGGCGT
AGCGGCGGATGTTGGCGGCAGACGGGGTGTTTTGCGCCAGCGTAATCAGATATTCGAATC
CGCCTGCCGCTTCCAATTCTTCGTTCCGCTGCAAATCTTCCTGAACCGTAATCACATCGG
CGGGACGGCTCTCATTAATCAATTTGGCAATGGATCGGAAAATCAGGCGGTGTTCATGCC
GGTAGAAGTCTTCACCGGAAACCACATCGGCAATCCTGTCCCATGCCGGATTTTCCAGCA
TCAACCCACCCAAAACGGATTGTTCCGCCTCCATTGAGTGTGGGGGCAGAGACAATGCGC
CGACCTCACGGTCTTCAGACGGCATGGCTGCGTAATCGTTCATGGTACATCCTATCTGTC
GTGCCGAAATTGCAATCTTCTATTATAGCGTAAAGCAGGTTTAATTGGTTTCCGCACCGC
AAAACAGGTAGAATACACGGGCTGCCGAGTTATTTGCAGCAACACTGCCAAAATACAACA
TTTAAAACAATATTCAGGAGTACAAAATGGAACATAAGCTGCCGCAACTGCCTTATGAAC
TGGACGCATTGTCCCCGCATCTGAGCAAAGAGACTTTGGAGTTCCACTACGGCAAACACC
ATCAAACCTACATCACCAACCTGAACAATCAAATCAAAGGCACCGAATTTGAAAACCTGC
CTTTGGAAGAGATTGTGAAAAAATCTTCAGGCGGCGTGTTCAACAACGCGGCACAAACTT
GGAACCACACCTTCTACTGGCTGGGTTTCACGTCCAAAGGTCAAGGCAAACCTGCCGGCG
AACTGGCCGCCGCCATCGACGCGAAATGGGGCAGCTTCGAGAAATTCCAAGAAGCGTTCA
ATGCCTGCGCGGCCGGTACTTTCGGCTCCGGTTGGGCGTGGCTGGTAAAAACCCCTGCCG
GCGGATTGGATTTGGTTTCTACTTCCAACGCCGCTACGCCGCTGACCACTGAAAACACGC
CGCTGCTGACCTGCGACGTGTGGGAACACGCCTATTACATCGACTACCGCAACAGCCGTC

CCAACTACCTGAAAGGTTTTTGGGAAATCGTCAACTGGGACGAAGTCGCCAAACGTTTTG
CCGCCTTGTCCTGATTTTTGTTAATCCGCTATATCATTTCGGGTAGATTTTTGCGGTATT
GAATTTCAGTTATTTCCGATAAATGCCTGTTGCTTTTTATTTCTAGATTCCCACTTTCGT
GGGAATGACGGTTCAGTTGCTACGGTTACTGTCAGGTTTCGATTATGTTGGAATTTCGGG
AAACTTATGAATCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAATA
TTCAAAGATTATCTGAAAGTCCGAGATTCTAGATTCCCGCTTTCGCGGGAATGACGGAAA
GTGGCGGGAATGACGGGATGTAGGTTTTCTTAACCCTGCGTCCTAGATTCCCGCTTTTGC
GGGAATGACGGAAAGTGGCGGGAATGACGGTTCGGGCATTCCTTAAATTACCCGTGTATC
GCTGTAAATCTTAGAGATGGCGGAATATAGCGGATTAACAAAAACCAGTACGGCAAGGCG
AGGCAACGCCGTACTGGTTTTTGTTAATCCGCTATAATTGATGAAACGGGTTAAAAAAGT
GTTGCCATCGCCTGTTCTTCTTGTCGGATACGCTTAAATAAGACCAGCAAATAAATGGGC
AGGCCAATCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 55>:

GNMAB42F gnm_55

TGACCCGGCATTCCCTTCCTGCCTGCGTTCGTGGACGCTTTTTTCAAATTCCGATTCCGC
CGTTTCGTTTTTCGGGAACACGATTTCGCCGCGAAGATGAGAAAACAAACGTTTCACAAG
GTTTTCGTCCACGGCGAACAATTCGGTATCGCCTATCCTGCTTTTGCTGAAAATTTCATG
GAGCAGGTTTTCTTTTTCTTTGTAATTGTCGGTTTTGACGGCGAGGATGCGTTCCAATCC
GGCAACGTTCGCATAACCGTTGTTTTCCAAATGGCGCATTCTGCCTTCAAAATTGCTTAC
ATCCGAAATGCCGATTTTATACACGCCCTTGATGACGGTTTTnATCAGATAGACAATGCC
TGACTTTTCCATATCGATGTTTTTCAAGTGTTTTCGAGCCTTCAGACGGCATCGGATTAT
TTCTATGCCGTCTGAAACCGTTTAAGTATCAAATATTATCGACACTCTGGCCTGTnAGCG
CGCGTTGGATGTTGCGGTTCATGCGTTTGGCGGCGAAATTnTCGGTGATGCTGCCGAGTT
TGGCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 56>:

gnm_56

CCGCACTGATTTCGCAAATCGGTACATATATCATCAGCGCGGGCGGCAAACGCCTGCGTC
CGATTATGACGATTTTGGCGGGTAAGGCGGTCGGTTATGATGACGAGAAACTGTATTCGC
TGGCGGCGATGGTCGAGTTTATCCACACTTCCACCCTCCTGCACGACGATGTCGTCGATG
AAAGCGATTTGCGCCGTGGGCGGGCAACGGCAAACAATCTGTTCGGCAATGCGGCGGCTG
TGTTGGTTGGCGACTTTTTATACACGCGCGCCTTTCAACTGATGGTTGCCTCGGGCAGTA
TGCGCGTTTTGGAAGTGATGGCGGATGCAACCAACATTATTGCCGAGGGCGAAGTCATGC
AGCTGATGAACATCGGCAATACGGACATTACCGAACGAACAATATATCCAAGTCATCCAA
TATAAAACGGCAAAATTGTTTGAAGCTGCCGCTCAAGTCGGCGCAATTTTGGGCAAGGCT
TCCCCCGAACACGAACGGGCGTTGAAAGACTACGGTATGTATGTCCGTACGGCATTCCAA
ATTATTGACGATGTGCTGGACTATTCTGGCGAAACCGACGAAACGGCAAAAACTCAGCGA
CGATTTGGCGGAAGGAAAACGACTTTGCCTTTGATTTATCTGATGCGTCAGGGTTCCGAA
CA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 57>:

gnm_57

GGCTGCTGCGAGGAAGATGTCGGGGGCGGGTTTGGAATGTGCGACGGCGGCAGGGTCGGC
AATGGCGTCGAAGAAGTGGGTCAGCCCCATGCGTTCCAGCAGGAACGGGCCGTTTTTACT
GGCGGACGCAAGGGCGATTTTTTTGCCGTTTGCCCTCAATGCTTCCAGCAGGGGCAAAAT

GCCGGGATACACGTCTTCGGGTTTGACTGCCTGAATCATCTCGACGTAGTTGTCGTTTTT
ACGGCGGGTCAGTTCGGCGAACTCGGCTTCGCTGACGGTTTTGCCGCCGTGCGCGAGGAT
GCGTTTGAGCGAATCGTCGCGCGACACGCCTTTGAGCTGCTCGTTAAACTTGCGGTCAAT
GCTGATGCCCAGTTCTTCGGCGAGCTTTTTCCATGCGCGGTAGTGGTATTCGGCGGTGTC
GGTGATGACGCCGTCGAGGTCAAATAGGACTGCAGTGAAAGTCATTTTGCGCCCTCCTTA
TTTTTCCAACGCAACGGTGTGGCTGCCGTCGAGCGTGATGTCTTTGCCGTACACCTGCAA
ATCGAGCGACTCGCCTTTGAGCAGAGTGAAGACGACGTTTTCTTTGCCGACGGCGACTTT
AATCAGACGGCCGCGGTAGTTGATGTGGAAGGCGTAGCCTGTCCACGCACTCGGCAGGAA
CGGTGCGAAGCTGAGTTTGCCGCCCCAGGTTTTCATTTGGGCGAAACCTTGGACGATGGC
GAGCCACGAGCCGGTCATGGAGGTGATGTGCAGGCCGTCTTCGGTGTCGTTGTTGTAGTT
GTCCAAGTCCAGGCGGGCGGTGCGCTGGTACATTTCCACGGCTTTTTCTTCTTTGCCCAG
TTCGGCGGCGAGAATAGAGTGAATACAGGGCGACAGCGAGCTTTCATGCACGGTCATCGG
TTCGTAGAAGTCGAAGTTGCGGCGTTTTTCGTCGATATTGAAACGGTCGCTGAAGAAGTA
GATGCCTTGCAATACGTCCGCCTGTTTGATAAAGGGCGAACGCAGGATTTTGTCCCACGA
CCATTTTTGGTTGAGCGGCAAATCGTCGGGCGAAAGCGCGGACACGGGGCGGATGTCTTT
GTCGAGGAAGCCGTCGTGCTGCACGAATACGCCGAGTTCTTCGTCATGCGGACGGTACAT
ATTCGCGCTGATGTCCGCCCATTTTTCCAACTCGTCGGCACGCACGTTCAAATCCGGACG
CGGGTATTTCGCCAAGGCTTCGCGGGTGTAGTCCAATACCCATGCGGCGAGGGTGTTGGT
GTACCAGTTGTTGTTGATGTTGTTTTCGTATTCGTTCGGACCGGTTACGCCGTGAATCAT
GTATTTGCCGTTGCGTTTGGAGAAGTGGACGCGGTCCGCCCAGAAGCGGGACACTTCGAC
CAAAACTTCCAAGCCTTCTTTGGCAAGATAGCCCTCGTCGCCGGTGTAGTTGGTGTAGTT
GTAGATGGCGTAAGGAATCGCGCCGTTGCGGTGGATTTCCTCGAAGGTGATTTCCCATTC
GTTGTGGCACTCGATGCCCGTAAACGTTACCATCGGATAGAGTGCGCCCGCCAAGCCCTG
TTCGCGCGCGTTGTGCTGCGCCTGCGGCAGTTGGTTGCGGCGGTATTGCAGCAGGTTGCG
GGTAACTTCGGGTTCGGCCAGTGCGAGGTAGAGCGGTACGGCGTAGGCTTCGGTGTCCCA
ATAGGTCGCGCCGCCGTATTTTTCGCCGGTAAAGCCTTTCGGGCCGATGTTCAGTCGCGC
GTCTTCGCCGTAGTAGGTGGAGAACAGTTGGAACAGGTTGAAGCGGATGCCCTGCTGCGC
TTCGTCGCTGCCTTCGATGACCACGTCGGCGATTTCCCAACGGTGCAGCCAGCCTGCTTT
GTGCGCGTCCAGCAAGGTTTCAAACGCAACGCCTGCAATTTTTTCCGACAAGGCGCGGCC
TGCGGCTTTCACTGCTTCCAAGCTCTGATAATCGCGGCTGGTGGTAACAATCACGCGTTT
TTCAAAGGTTTCGGGTGTGCTGCCGACTTCGGATTCAAAAGAATTGGAGACCTGCCAGTC
GGTTTGGCTGCCGCCGAGGGCTTTGAAGCTGCCGGCAAAGGTTTGCTCGGCGTTGACGAT
GAATTGTTCCACGCCGAAGGGATTGGCGACGGTTTGGGCGGCAATGTAGGAGAGACTGTC
TGAAACGCCTTTGTCCAATACCTGCCAGAATTTTTCTTCGTAGTTGGAGTCTTCGTTTTT
CACGTCGGCATCGATGATGGAATCGATGCGGACTTGGTGGGTTTTACCGTCAACGGATAC
GGCTTCCCAGCGGATGACCGCCAGCTCTTTTTGTGCGACAGACAGGAATTTGCACACATT
GAAACGCACACCGAATACGGTGAACGAGCGGCGCAACACGCCGTGCTGCATATCGAGTTC
GACGGAGAAGCCAGCAACGTCGTTTTTCGCCAAGTCCACTTCCTGCCCGTCGACAAAGAT
TTTGACTTTGCTGAAATTGAACGCGTTGATGGCTTTGCCGAAATATTTGGATAGCCGTT
TTTCCACCAGCCGACGCGGGTTTTGTCGGGGAACCACACGCCGGCGATGTAGGTGCCTAA
GTGGCTGTCGGCGGAATAGGTTTCCTCAAAGCTGCCGCGCATACCCATATAGCCGTTGCC
CAAGCTGGTCAGGCTCTCTTGCAGCCGTTTGTGTTCTTTTTCCAGTTTTGCCGAACGCAG
CGTCCAAGGGCTGATTTCCATGATTCTTGTGTACATTTATGAAGCTCCTGTTTGGATTGA
TTTGAGGGAATGGTGAAATCTTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGC
CGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATC
GTTCTCTTTGAGCTAAGCCGAGGCAACGCCGTACCGGTTTTTGTTAATCCACTATAAAAA
GGTCGTCTGCAACCGGTGTTAGGAAGCTCCTAAGAAAGGGATTCGATGCCGTAAGCAATC
GTCGCCTCCCTGGTATCACCCTTGTTCAGACGAATATTGCCGAACTCGGGCCAATTCAGG
CTGTCGGGCAGCGTCTGCGCCTCGGTCGCCAGCGCGTCGTAAACGCCCGCATCGTGCCGC
GCGAAATCCTGCGGGGCGGCGGTAAAGATGACCAAGCCATTGCGGTCGCTGTATATGCTG
ATACGACGGCGGCGTCCGGCTTGCAACACAGCGGCGGGACGGCCTATATCGGACGGCACG
CGGTAAGCGTCGTCAAAACCGGCCCGACCCGTTTCGCGGCGCAGGGCGGCAACGGCGGCA
TCCAGCGGCTTGGGCCGGCTGAAATCAAATACTTCGAGGTCGTCTGAAACCGTTGAGACG
GGCAGTTTTTCGGCATCGGCCGGCATATGTCCGCCCTGCGGAATATGCAGAACCGCATCG
TGCAGGCCCGCGTCCAGCCGCCAGTAAATGTGCAGCGTCGGGTCGAACACCGTGTCGCCG
AGCGCGGTGGCGCGATAGCTAACGGTAAGCCGGTCGTCCTCGTCCAAGCGGTAGGAAATA
TCCAAATCCAAATCGTTGGGATAACCGTCGGCCGACTGTTGCAGGCGGCTGCGCAGCACC

ACCGAACGGCCGTCTGCCGCCACCGCGTTGAAACGGGTAACGGCCAGCCCGTGCGAACCG
CCGTGCAGCGCGTTCCTGCCTTCGTTGGCCTCCACGCGGTAAGTCCTGCCGTTGATGTCG
AACGCCGCACCGCGGATGCGTCCGGCCACGCGCCCTATCTGTTTGTTAATCTGAAACGGA
TTGTCCGCATAGGAAGCCGCATCATCGAACGACACCACGAGGTTTTCGCGCACGCCGTCT
GCCAAAACGGAAAATTCCTGCACAATCCCGCCCAAGTCCAGCACGCAGACACGCGTACCA
CGCCGGTTGGACAGCACATAGCCGGTTACGGCACGCCCGTCGATCAGACCGAAATCGCGG
GTAGCGGGGGTATCGCTCATCGCTCAAACCCCGCCGTGTGTTTCTTTAATCAGGAACACG
GAAAACGCGCCCAGCAGCAGGACGACGCCCCCTACCAAGAACATAGTGGCCTGCAAGCCG
CCCAGCATAGGGAAAAGCACGAAACTCAACAGCGAAGCGACGATTTGAGGCATACAGATA
GAGCCGTTAAACAAGCCCAAGTAAGTGCCCATATGCTTGCCCGACAAGGCGTTGGTCACA
ATCGTCAGCGGATAAGTGATAATGCCCGCCCAAGCGATGCCGATTAAGGTATAAGACAAC
ACCAGCGCGTATTGGTTGCCGATGAAGAAAACGGAGAAAAAGCCGAGCGCGCCCAAAGCC
AAACAGCCGAAATAACCCGCCTTATGGTATTTATTCGGCACTTTCGCCAATACAAACGAA
CAAATCACCGCCGCAACCGACTGCACCGCCGCCAAAACGCCGTACCAGTTACCCGCCTCC
TGATAACCTACGGAAGACGCATCGGTGGTGTGCCAGACGTTTTCCGCAATCGCGCCTGCC
GAGTAAGTCCACATATATTGGAAGGCGAACCAGCAGAAGAATTGCACCAAAGTAACCGTC
CAAAACGCCTTAGGCGCGGTTTTCAAGAGTTCGATCCAGTTGGCTTTTTCCTGATTCGCG
GCGACATCGATGCCGTGGTAACGGGCGTAGGTTTCCGGATCGTATTCCTTCACTTTGAAA
ATCGTGAACGCGCTGGTAATCACCAGCAACGCCGCACCCACATAAAACGCCACGACCACG
GTCTGCGGCACAACGCCTTTCTCGGCGGTGTTCGCCAAACCGATATACGCAAACACAAAC
GGCAGAATCGCCGCCACGACCGCGCCCGTATTTGCTAAGAAACTTTGAATCCCGTAGGCG
TAGCCTTTCTGCTCCTCGTTGACCATGTCGCCGACCATCATCTTAAACGGCTGCATCGCC
ATATTTGACGACACGTCTAACAGCGCAATCATCAGCGCGCCGAACGACAAAGCCGCCAGC
GACGCATAGCCGAAACCGAAGCTGCCCGAGTTCGGCATCAAAATCATCACAATAACCGCA
ATCAGCGTGCCATAAAGCAGATACGGCAGACGGCGGCCGCCCAAACGCGGCTTCCAAGTG
CGGTCGGAGTAATGGCCGACAATCGGCTGCACCAGCATCCCCGCCAGCGGCGGCAGGATG
AAAAACCAGCCCAAATTGTGCGGGTCTGCGCCTAGCGTTTGAAAAATGCGGCTCATTTGC
GAGCTTTGCAGGGTAAAGGCCGTCTGAACGCCGAGAAAGCCGAAACTGAGCATCCAAATC
GTGCTTTTTGCCAGCGCGGGCAAACCTTGTTTTGCTGTTTGAGGCGTATATTCCGACATA
AGGTAAATCCTTTTTTGATTTGAAAAGTATAGTAGATTAACAAAAACCAGTACGGCGTTG
CCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTT
CCGTACTATCTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTA
TATTTGCTTTGGAAAATCCGAAATGGTTGCCGGGGCGGCGATCCCCTATCATTATTATTT
TTTTGTCTATATAATTTCAAAGGGATAAGCGGATTTTATGAATCCTGCCCGATTTTGGCA
ATACCGGTTCGCGGATAAACTGGCTTAAATCAAATTATCGGTTAAAATGGCCGTCTGAAA
TTTGTTTGATGAAAACGAGAAAACCATGTCCCAACAATACGTCTATTCTATGCTGCGCGT
GAGCAAGGTTGTGCCGCCGCAGAAAACCATCATTAAAGATATTTCCCTTTCTTTCTTCCC
CGGCGCGAAAATCGGCCTGCTCGGTTTGAACGGCGCGGGCAAGTCCACCGTGCTGCGGAT
TATGGCGGGCGTGGATAAGGAATTTGAGGGCGAAGCCGTGCCGATGGGCGGCATCAAAAT
CGGCTACCTGCCGCAAGAGCCTGAGCTTGATCCGGAAAAAACCGTGCGCGAGGAAGTGGA
AAGCGGTTTGGGCGAAGTGGCTGCCGCGCAGAAACGTTTGGAAGAAGTGTATGCCGAGTA
CGCCAATCCTGATGCGGATTTTGACGCGTTGGCAGAAGAGCAGGGCCGCTTGGAAGCGAT
TATTGCGGCAGGTTCGTCCACGGGCGGCGGTGCGGAACACGAATTGGAAATCGCCGCCGA
CGCGCTGCGCCTGCCGGAATGGGATGCCAAAATCGATAATTTGTCCGGCGGTGAAAAACG
CCGCGTTGCCTTGTGCAAACTCTTGTTGAGCAAGCCCGATATGCTTTTGCTGGACGAGCC
GACCAACCACTTGGATGCGGAATCGGTCGAGTGGCTGGAGCAATTTCTCGTGCGCTTCCC
CGGCACAGTCGTTGCGGTAACGCACGACCGCTACTTCCTCGACAACGCCGCCGAATGGAT
TTTGGAACTCGACCGCGGCCATGGTATTCCGTGGAAAGGCAATTACTCGTCTTGGCTGGA
GCAGAAAGAAAAACGCTTGGAAAACGAGGCAAAATCCGAAGCCGCGCGCGTGAAGGCGAT
GAAGCAGGAATTGGAATGGGTGCGCCAAAATGCCAAAGGCCGCCAAGCCAAGTCCAAAGC
GCGTTTGGCTCGTTTTGAAGAAATGAGCAACTACGAATACCAAAAACGCAATGAAACGCA
GGAAATCTTTATTCCCGTTGCCGAGCGTTTGGGTAACGAAGTGATTGAATTTGTAAATGT
TTCCAAATCGTTCGGCGATAAAGTGCTGATTGACGATTTGAGCTTCAAAGTGCCTGCGGG
CGCGATTGTCGGCATCATCGGCCCGAACGGCGCGGGTAAATCTACGCTGTTCAAAATGAT
TTCGGGCAAAGAGCAGCCTGATTCCGGCGAGGTGAAAATCGGACAAACCGTGAAAATGAG
CTTGATTGACCAAAGCCGCGAAGGTTTGCAAAACGACAAAACCGTGTTCGACAACATTGC
CGAAGGCCGCGACATTTTGCAGGTTGGTCAGTTTGAAATTCCCGCCCGCCAATATTTGGG

GCGTTTCAACTTCAAAGGCAGCGACCAAAGCAAAATTGCAGGTCAATTGTCTGGCGGCGA
ACGCGGTCGTCTGCACTTGGCAAAAACCTTGTTGAGCGGCGGCAATGTATTGCTGCTGGA
TGAACCGTCTAACGACCTTGACGTGGAAACCCTGCGCGCGTTGGAAGACGCATTGTTGGA
ATTTGCCGGCAGCGTGATGGTGATTTCGCACGACCGTTGGTTCCTCGACCGCATCGCCAC
GCATATCTTGGCGTGTGAAGGCGACTCTAAATGGGTGTTCTTCGACGGCAACTATCAGGA
ATACGAAGCCGACAAGAAACGCCGTTTGGGCGAAGAAGGCGCGAAACCGAAACGCATCAA
ATACAAACCGGTAACGCGTTAACCTCCGAAACAATGCCGTCTGAAAGGCTTTCAGGCGGC
ATTTTTACAAGGCAGCACCGTTTAAAACAGCATTGCAATCCTCAAGACAATCAAAGTCAT
CACCGCAGCCGCCATATCGTCCGCCATAATGCCCAAACCGCCGTGCAGATTCTTGTCAAA
CCAACCGACGGGAGACGGTTTGAGCGCGTCAAACAGACGGAATAGGACAAATGCCGCCAG
CCACCACGTCCACCTGAACGGCACAAACGCCAGCACAAACAGCATGGCGACAATCTCGTC
CCAAACAATCCCACCGTGGTCGCTGACACCCGTTTCACGTTCCGCATAAGCGCAAATGCG
TATGCCCCACATAAACAGCACGATACACAAAAAAGCCAGCAGTAGCCCGTCTATGCCGAG
CAAAATCAGCACAAACGCCAAAGGCAGTGCCGCCAAAGTGCCGAATGTGCCCGGCGCGAA
CGGAGCCAGCCCGCTGCCGAAACCGAAAGCCAAAAAACACAACGGCCGTTTCAACAGCCA
CGCAAAGTCAGGTTTAAAATCAGCCAAAATGATCGAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 58>:

GNMAB61F gnm_58

CGGTCTTGGCGCACGCGCGnTCTTTCGGCATACATCACGCCCAAATTGTTTTGGGCTTGG
GCTACCCCCTGCGCTGCCGCCTGCCGAAACCATCTGACCGCTTCGACATCGTCTTGGCGC
ACTCCACGTCCTTCGGCATATATCACGCCCAAATTGTATTGGGCTTGGACAACCCCCTGC
GCTGCCGCCTGCCGATACCATCTGACCGCTTCGGTATCATCTTGGCGCACGCGCGCCCGT
TGGCATACATCCAGCCCAAATTGTATTGGGCTTGGGCTAACCCCTGTTCCGCCGGCTGCC
GATACCATCTGACCGCTTCAGCATCATCCCGGCGCACGCGCGTCCTTTGTAATACATTGC
GCCCAAATTGTATTGGGCTGCTGCATTTCCCTGTGCTGCCGCTGCAAGTTTTCCCGAAAA
TCCGATACGTCATCCGnCCACACCGGTCGGTTCAAGCCCAAGGCAATCAGGGCGGCGGCA
AGCATTTGACTGTCTGTTTCATGGTTTnACTTCTGTTTTAGTATAAGGCGGGTTTCAGCC
ACCGnTAACGATAGGGCTGGGCGGATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 59>:

gnm_59

GTACCCTGCTCAAGCAGTACAATCCCGAGTATTCGGGCATTTCATCATTTTTTAAGACAG
GAAGGGACTGATTGTGAACAAGTCTGAATTGATCGAAGCGATTGCTCAAGAAGCCGAsAT
TTCCAAAGCCGCCGCACAAAAAGCTTTGGATGCCACTACCAATGCAGTAACCACCGCCCT
GAAACAAGGCGACACCGTTACTTTGGTCGGTTTCGGTACTTTCTACGTGGGCGAACGTGC
GGAACGCCAAGGCCGCAACCCCAAAACCGGCGAGCCTCTGACCATTGCCGCCGCCAAAAC
GCCTAAATTCCGCGCCGGCAAAGCTTTGAAAGACGCACTGTAAGCCGTTTTTTATGAAAA
AAGCCGATTCTTTAAAGAATCGGCTTTTTTATCGGTCCACATTATTCTGATTTCAAATCG
GCAACACACTGCTTGTCACGTGCTTCAAAGGCATTTGCGCCGCCGAGCAGGTCAAGCTGT
TCTTGTGCGCCGAGTTTGCCGAAGGATCTAATCTGTTTCTCGCTCAATCTGTCCAAAGGC
TGCTCCCACATACATTTGCAGTAGTCGACGGCGAGGCGGGTATTGTTTGAATCTAAACCG
CGGGCCCGCAAATCGTTTTGCCATTTTTCGGCAAACGGAATATTCTTCACGCAAGACTCG
ACAATTTTCTGTTTTGCCTGCGGTTTGGACATCGCGCATTGGGAGAGCAGGGCGGTTAAA
GCGAGCAACGCCAAAATGACCCACGCCCAAATGCGGATGGTGCGGATTTTGGCTTTTGCT
TTTTTGCGCGCGGCAACCTGCTCTTTCGTCAGCATTTCGTGTTTCGGCTCAGTCATGCAG
GCTTTCCATGCGGATCATGGTAATCGGTTTTTCCACGCAATCCAGTGCTTCGATGGCTGC
GATTGCCGACTTGATGTGTTTTTCGACCGTGCTGTGGGTCAGAATCACGATTTCGGCAGT
GGTCTGATCAATCACGCCTTTTTGAATCAGTGCTTCGATGGACACGTTTTCTTGTGCCAA
CAGCGCGGCGATTTGCCCCAGCGTGCCCGGTTCGTCTTTGGCTTGGACGCGCAGGTAGTA

GCTGCTGGTAATTTCGTCCATAGGCAGGATGGTTTGCGCTTGGACTTGCGCGGGTTGGAA
CGCCAGATGCGGTACGCGGTGGGCGGTATCGGCTTCAACCAGGCGGGCGATGTCGATGAT
ATCGGCAACCACGGCGGAAGCGGTCGGCAATGCGCCCGCGCCCGCGCCGTAATATAAGGT
TTCGCCAACCATATCGGCGTTGACGCGCACGGCGTTCATCACGCCGTTGACGTTTGCCAA
GAGGCGGCTTTCGGGAATCAGGGTAGGGTGGACGCGCAGCTCGATGCCTTTGCCGGTTTT
GCGGGTAATGCCCAACAGTTTGATGCGATAGCCAAGTTCTTCGGCGTATTTGATGTCGCG
GCTGTCGAGTTTGCTGATGCCTTCGAGGTAGCAGGCGGAAAAGTTCATCGGCGTGCCGAA
TGCCAGTGCGCTCATGATGGTGATTTTATGGCCCGCATCGTTGCCTTCGATGTCGAAGGT
CGGATCGGCTTCGGCATAACCCAATGCCTGCGCTTCTTTCAGTACATCGGCAAACGCGCT
GCCTTTTTCGCGCATTTCGGAGAGGATGAAGTTGCTGGTGCCGTTAATAATGCCGGCGAT
GGATTTAATCCTGTTTGCCGCCAAACCTTCGCGCAGGGCTTTGATGATTGGGATACCGCC
CGCTACTGCCGCTTCAAATTGGACGATGACGTTTTGTTTTTCCGCCAGCGGGAAGATTTC
GTTGCCGTATTCGGCGAGCAGTTTTTTGTTGGCGGTAACGATGTGTTTGCCGTTTTCAAT
GGCTTTCAACACCGCATCTTTGGCAATGCCGGTACCGCCGAACAATTCGACGACGACATC
GACGTCTTCACGTGCGACCAGTTCGAACGGATCTTTGACAAAGGCTGCGGACGGGCAGGT
TTGTCGGGCTTTTTCTTCACTCAAATCGCACACGGCAGAAATACGGATTTCGCGCCCCAA
GCGACGGGAAATTTCCTCCGCGTTGTCCCGCAACACGGCAGCCGTACCGCCGCCGACCGT
ACCCAAACCTAAAAGACCGATGTTTACTGGCTTCATTGTGTCTCCTTGTAAGCCGACTGA
AATGTAAATATTGAAAGACGAAAATATCCGCTGCCGATATAATTGTGCCGCACTTTGAAT
CAAATGCCGTCTGAAATCGGCAGGCGGGTCAGATGAAATCTGCCAATCCTACATGAATTT
GTCTGATTTTGCATCCCTTTCGGTGTAGATGATGCGGCAACGGGGTAAAAAAATGTTGTT
TGAAGAAAATCCGATAGACGGACAGTTTGCGGAATATGAATGCGGTGCGGGCGGAATCCG
GCTGGCGGGGCAAAGTTCCATAAACCCGTGCTTGTACATAAGGATTCGGTCTGCCTGTC
GCAATGCCGAACCTTGTCCGATCTGACTCCGGAAAACCTGTTGTCCGACGTCAAACCTGT
TGACTATCCGGAAATATTGATTATCGGGACGGGCGCGGCTCAGGAGTTTATCCATCCCAA
AATCATGGCGGATTTTTCCCGAATCGGAATCAGCGTGGAATGCATGAATACCGATTCGGC
ATTCAGGACATTGGTTTTCCTGCACTCGGAAGGGCGCAGGGCTTGGGCTTGGCTTCAGCC
GTAAATTTCCCGTTTCAGACGGCATCGGCACTGACTTTCAGGTAAAATACGGGCTTTTCC
CGCCCGACGATGTTTCCGTTATGATTGAAATCAAAAACCTCACCCTGCAACGCGGTTTGA
AAGTCCTGCTCGACAAAGCCAACGCTACCGTCAATCCCGGTCAGCGCGTCGGTTTGATCG
GCAAAAACGGAACGGGCAAATCGAGCCTGTTTGCCTTAATCAAGGGTGAAATCACTCAGG
ACGGCGGCGATGTCTCGATTCCGAAAAACTGGCGGCTCGCTTCCGTTTCCCAAGAAACGC
CCGATTTGGATATTTCCGCTTTGGATTACGTTTTGCAGGGCGATGCCGAGTTGCAGGCTT
TTCAGACGGCATTGAGGCAGGCAGAAGCGCAAAATGACGGCATGAAGCAGGCGGAATATC
ATGCTAAATTGGAAGAAATCGACGCTTATACCGCGCCGGCGCGTGCGGCAAAATTGTTGA
ACGGGCTGGGTTTTTCGCAAGAAGAACACAGCCGCCCCGTCAAATCCTTTTCCGGCGGCT
GGCGTATGCGCCTGAATCTTGCGCAAGCCCTGATTTGCCGCGCCGATTTGCTCTTGCTTG
ACGAACCGACCAACCACTTGGATTTGGAAACCGTCTTGTGGCTGGAAAACCACCTTGCTT
CTTTACCCTGCACGCAAATCATCATTTCCCATGACCGCGATTTTCTCAACGCGGAAACTA
CCCAAACCATTGAATTATCGCAGCAAAAACTCACGCAATACGGCGGCAATTACGATTTTT
ACCAAAACGAACGTGCGCAGCGTCTCGCGCAACAACAAGCTGCCTATGTCAAACAGCAGG
CGCAAATCAAACATTTGCAATCCTTTATCGACCGCTTCAAAGCCAAAGCCACCAAAGCCG
TTCAAGCGCAAAGCCGCATGAAGGCTTTGGCGAAGCTCGAACGCATCGCTCCCGCGCATC
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AGCTAGAACACGCAGATTTGGGTTACGAAGGCAAAACTGTTTTGCACGACATTACCCTGT
CGCTGGAAAGCGGCGCGCGCTATGGTTTATTGGGTGTCAACGGCAGCGGTAAATCTACCT
TTATCAAAGCTTTGGCAGGCACAATCGATTTACTCTCCGGCAGCATCGTCCGTTCCGAAA
AACTCAATATCGGCTATTTTGCCCAACACCAACTCGATACCATCCGCTCCGACCAAAACC
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AAAGTTTCCAAGGCGCCTTAATCGTCGTATCGCACGATCGCAGCCTGCTTGAAGCCACGA
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CCGAAATTCAGACGGCATGTGAAGCATTTTTAGCACAAGAAGAAGCTTACTTCGAGGAAA
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GCCTTGGGTCTCCTGTCCCTTTCCGGCGCGGCGGCGCAAGCCTCCGTATACCATTGCAAC
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GTAACGAGGTTTGTGAAAGTGTCGATGATTTTGTGAATGTCTTGCTCACGCAGACGGTTT
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ACGATGATGCAGGCAGGAATGCCCGTGCCGTAAAACAGGTTGGCAGGCAGCCCGATAATG
CCTTTAATAAGGTCAAGGTTAAGCAATTCCGTGCGAATACGCGCTTCGGCATTGCCGCGA
AACAGCACACCGTGCGGAAGAATAATCGCACCTTTGCCGCTTGGTTTCAGGCTTTTGAGC

AGATGCAGCAAAAAGGCGTAATCGCCGTTTTTTTCGGGCGGGATAAGGCGGATTGGCAAC
GGCAAAATCGAAGGTCTTAAGCCCGTCGTTTTCATCACGGAAAGACGAATCGGACAAGTG
TTCCCGTGTTGATTTCGGCGGTTTCGTTGTTGTGCAAAATCATATTCATACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 60>:

gnm_60

CTGAGCGCGGAAATGGCTTTCAGACGnCATTTGCGCTCAATAATAATATCCCGCGnTCAG
AATACACGGTTTGGATGCGCCGGTTGCTTTGTGCGGACTACCGGGAATGCGATTAATCCA
ACACGCCGCCAACCACGCAAATnCGGCGGCTTCCACCCATTGCGGATCGAGGTTCAGGTC
GGCGGTGCTGTGCAGGGAAACGCGTGTGCCGAAACATTCTGCCAAATCCGCCATTAAAAC
AGGATTGCGGATGCCGCCGTCGCAAATGTACATTTGACGGGCATCTGCCGCTGCGTGTGA
GACGGCGTCGCAAACGGTTTGCGCGGTAAAACGGGAAAGCGTCCGCAATACGTCGTATCG
GTTTTCGCCGCCGTCAAGGTAGGTTTCGAGCCAATTTATGGCAAACAGTTCGCGCCCCGT
GCTTTTAGGGTGGCGTTGTGCGAAATACGGGTGGGCGAGCAGCCTGTCGAGCAGTTGCGG
CAATATGTTGCCTTGTGCCGACTTTGCACCGTTTTTGTCGTAAGGAAGCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 61>:

gnm_61

CCCGTATCGGATGATTTTTGGGGGAATGGTTGCGCTCATGTTTTTTGATAACGGGAAACC
CGTTTTTCTCTGTAGAAAGGTAAGCGTTTACTTTAAGTAATTGACTGTTGCGGGTCAAGT
CTAATTTTAAAAAATAATCCGGTTTTTCTTACAAACTGCCCCCATAACGCTTACTGTACC
TTAATCTGATGGTTTTCGATAATAATTATCATTACAATGCAATGCCGGTTCGTTTGCTTG
TGAACATTCAAGATGCCGACTCTGACGGCATTCAGACAGCATCTGAAAACAATAACGGCA
CAAGGATGGGGTACAATCGCCCTATGGAAAAAAACACCCTATCCGCCCGCGCACCATCCC
CTTGGCTGCCGCTTCTGCTGGCAATTGCCATTTTTATGCAGATGTTGGATGCGACCATTT
TAAATACCGCACTGCCTGAAATTGCCGCCGACCTGAATGAGTCGCCTCTGGATATGCAAC
TGGCAGTTATTTCCTACACGCTGACGGTTGCCCTGCTGATTCCTTTGAGCGGTTATTTGG
CGGACAGGTTCGGAACGAAAAAAGTCTTTTTCGGTTCGATTGCCGTTTTTATGCTCGGAT
CGGCATTGTGCGCCGCATCGGGTTCGCTGTTTGAATTGACGCTTTCCCGTGTCGTTCAGG
GCATCGGCGGTTCGATGCTGGTTCCGATACCGCGTCTGACCATCTTGCGTGTGTACGACA
AGTCCAAGCTGCTCAATGCCATCAATTATGCGGTTATGCCCGCATTAATCGGGCCGGTTT
TAGGGCCTTTGGCGGGCGGTTATTTGGTCGAATACGCTTCGTGGCACTGGATTTTCCTGC
TCAACCTGCCCATCGGTCTGCTGGGTTTCATATTGGGACGCAACATCATGCCCGATATTA
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CGCTGTGCGGCGGACTGCTGTTTGCACGCCGTTATTTCCGACATATGAAAACCGCGTCCA
AACCGATTTATTCCGCCGACCTGTTTCTGATACGCACTTTCCGTCTGGGACTGGCGGGCA
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TCGCTTTCGGCTTCGGCGCAAGCCTGTCGGGTTGGCTGGTCGCACCCGTCGCCCTGTCTT
CGCTGCTGGTCAAACCGCTGATTGCACCGCTCATGAAACGTTTCGGCTACCGCACGGTAC
TGCTTTGGAACACCAAGCTGCTTGCCGCCTTCATCATGCTGCTCGCCCTGCCTGACGGAA
ACTCGCCGCTGTGGATTTGGGTTTTCCTCTCGCTGGCGATCGGCGCGTGCAACTCCCTAC
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TCCGTATGACCCTGCTCAGCATCGGCGGCATCACCCTTGCATCATCGCTGGTTTTCAAAC
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AAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 62>:

gnm_62

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TGTCGGGAGGGAAAGGAATTTTGCAAAGGTCTCAACTTGAACAAAAAAGAACCGCCCCGA
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ATTTAAATATATTTATTTCTTATGAAAATTTAATTTACCATAAAAACAGCCATATACAAA
AATCTTGGAGTAACTATTGCATTACACTATTAGAAGAATGCCGTCTGAAGTGTTTTCGGA
CGGCATTTCCCAAGCTGCCGGAAAAAAGCTAAAATGCCCGCAAACAGACAAGGAGCAGCG
ATGCAAAACCAAAATACACGCCCCGTCAAAATCGAGCTTAAAGGCGAAGCAGGCAAACGC
GTACTGCTTGCCGCCGCCCGCCGCATTGCCAAAACCCATCAAAAAGCCGTCAAGGCACTT
GCCGACAAATGATAGACGGCGAACTGGTCGCGCTTATCCATCAAACCGTATTGGCGGATG
AAGCGGGTTTGAAAGGGCGGGCGGATATGGCGCGCTTGGACGGCGCATTGTCGCGGATTG
CCAACTGGCGGCAGTATGAAAACCTTGAGGACATCTACGAAATCGCCGCCCTCTATGCAC
AAGCCATAGCCAAAGCCCACGCCTTTCCCGACGGCAACAAGCGCACCGCGCTTTTAACAA
TGTTGACCTATCTGGATTTGCAGGGCATCAGCATTGCCGCCGACCAAGGGCTTGACGACT
TGATTGTCAGTTTGGCGGCGGGAGAAACCGACTTCAAACAGCTCGCCGAAACCCTGCGCC
GGCTGGATAAGGAATAGGCATATCCGACAACAATGCCGTCTGAAATTCAGACGGCATTTT
TATTGAAAGGCTTTTCTTCAACCGCTTTACACAAAGGCGGTTTTTTTATGCCGTCTGAAA
GCCCTTCAGACGGCATTGGTTTACACGGCAGGAGTCCCCCCGCCTTTAAGCAGGAGAGGA
TGTCAAGGATGCCTGATTTTTAAATCACCCCTTGAAAGAACGGGCGCACGGCATTAATAT
ACAGATATCGACAAGCAAGGTTAAAACCATTAAGGAAATACGATGAAATACAAAAAATGAG
GGTTTTAATGGCTGGTAAGGTGCGGAAACAAATAAAACAAGGAGGTTGGTTGTCAGTAAT
TGCCCTAACCTCCTTGTTTGTATCTGTATTCACTTTATTTTACATATTCAGGCACAGCGT
ACAGTTTAACCTATGAGGGACGGCCGAATGGCTGATGTTTTGGCAACTGACCGTTGTTTC
AGTAACCGCCGTCATTGCACTGGGGACAATATTCATCAATAAGAAAACTTCAAAGCAAAA
GGCGACATTAGATGTTATTTTGAATGATTACCAAGATGCACAATTTGTAGAAGCCGACAA
TCATATTTCGCCTTATATTCGCGGCACGGCAGTTGACGACAACAACGCGCGGATCGACCT
GTATGAAATTTATCAAAATAAGGGCGGACAATGGGAAAAAGAGAGAGGGCATTTACTTAC
CGTAATCAATCGGCACGAGTTTTATGCGTGCGCAATCAACTCGGGAGTATTGGATGAGGA
TTTGTTTAAACGGCTGCATTGCACCAACTTCATAAAATTGTGGAATGCAGTTTCGCCTCT
TGTTATGAAAATACGCGAAGAAGAACGCAAAGACACAATATTTAGAGAGTTGGAAATTTT
GGTTGCATTATGGAAAGCAAACCCCCCTAAAGGCATCTGATTTGTGAATAAACAGTCAAAA
CTGTTCTGAAATATGGGCAGCCACGCAATCGCCGAAATACGCCAAAGCAGCCTTATAAAG
TGATTTTTTGAACATAATTTTCTCCTTGCGGAGCATTTTCCAATCAAACAGTTTTAGTTT
ACTTGGTTTTGTATCCCTAAACAACCGAAATCCGACATCAAGCAATTAGAAAGCTTTTGC

ATCTTGAAAATGGATAACAAAATATTGCCTGAAGGCGCAAATACAGTACAAAAGCCGTCC
GAAACAGTTCGGACGGCTTTTGGCGTATTCTGCACAAGTATTTGAACAACTGAAATTTTA
TGGTAATATGTATCTACTTTGTAGATACAATAAAGGTGAAGATTATGTTGCGTGTCCAAA
AATGGGGGAACTCGGCGGCCGTCCGACTGCCTGCCGACATGCTGAAACAATTGGATTTTA
AAATCGGCGACGCTTTGGTAGCGGAAGTACATAACGGCGAACTCCGTGTGCGTGCTGCCC
GACGTTTCCGCTTGGCAGACTTGCTTGCCGAAATGGAAGAAACCCCGCCGCGCGTAGAAG
GCTGGGAAATCTTGGATGATGCCGGCAACGAGGTCGTCTGAAATGTATATTCCCGACAAA
GGCGATATTTTCCATTTGAATTTCGACCCTTCCAGCGGCAAGGAAATCAAGGGCGGGCGG
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GGTGCAGGAACGGAAACGCAGGGCAATGTCCACTGCCACCAGCTCAAATCTCTAGACTGG
CAAATCCGCAAGGCTTCTTTTAAAGAAACTGTACCCGATTATGTATTGGACGATGTGCTG
GCGCGCATCGGCGCCGTCTTATTCGATTAAATGCTGAAACCGCCCGAACCTGTAATCTTT
TCTTACAGGTTCGGGCGGTTGCTTATTCGGCACGCTGACTGCTTACTGCATGACCATATG
CCTGCCATTCCCTTAAATCGGCTGCATGTCCGTCGGCTGTTTCTGCCAGTCCTGCATATT
TTTCAGCGCACTGTCCGAATAATAGCCAGCCTTGGGAATCTGACGCGCCATCAGATGCGG
TGGCGGCGGTAGCGGTTGCGGGCAGGTTTCTGTTGCGATTTTGGGCGGCGGCGTAGTGGC
GCAGGCGGTTAAGCTCAAGACGCATAGCGGCAACAGTTTTTTCAGCATTTTGTTTTTCCT
CTTCTAATTTGGTTTGTCGTTCGGCAAACGCGGCAGCGGCCTTCTGCTCGGCAGAACGCG
CCTGCTTTGCCTGCTCGATATAGCCGTCTTTCAGACGATTCGAGATTTCGGCAGCAGCAG
CCTCCCGTCCCATGCGGTATTTTTCGGCACGGTCGAAATGCCATGCGGTAAAAATCAGGA
CGATTAGCAGCAATACACCTACCGGCTTCCAGTATTTCAATAAAATATCCATTTCAGACG
ACCTCAAGGATGCAGCCCGGGCAGATACACGGTTTTGCCGTTTTTCTTGGTTGCGGTCAG
TATCTGGTTGCGTTGCGGGCTGTTGCGTCGGAAACCGATGTGTACCCATGCGCCGTCCCC
GCGCTCAGGAAATTCGAGTATCAACTGGTCGAATTTCAGCGCACGGCGGATTCGCATTTG
AAGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCATACGGCCTTTCCTGCA
AGAAAGATTGCCATGAGCCACACGCAACTGACCCAAGGCGAACGATACCACATCCAATAC
CTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTTAACCGCCACAAAAGCACC
ATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATACAGCGCCGAAAAAGCC
CAGCGGCAAAGCCGGACTATCAAACAGCGTAAGCGACAACCCTATAAGCTCGATTCGCAG
CTGATTCAGCACATCGACCCCCTTATCCGCCGCAAACTCAGTCCCGAACAAGTATGCGCC
TACCTGCGCAAACACCACCAGATCACGCTCCACCACAGCACCATTTACCGCTACCTTCGC
CAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATATGCAGCAAACCCTAC
CGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAACCGTGTCGGCATAGAA
AACCGACCCGCTATCGTCGACCAGAAATCCCGTATCGGCGATTGGGAAGCCGACACCATT
GTCGGCAAAGGACAGAAAAGCGCATTATTGACCTTGGTCGAACGCGTTACCCGCTACACC
ATCATCTGCAAATTGGATAGCCTCAAAGCCGAAGACACTGCCCGGGCAGCTGTTAGGACA
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CAACACACCAAAATAACCAAAGCATTGAAAGCGGAGACTTATTTTTGTCGCCCTTACCAT
TCTTGGGAGAAAGGGCTGAATGAGAACACCAACGGACTCATCCGGCAATACTTCCCCAAA
CAAACCGATTTCCGTAACATCAGTGATCGGGAGATACGCAGGGTTCAAGATGAGTTGAAC
CACCGACCAAGAAAAACACTTGGCTACGAAACGCCAAGTGTTTTATTCTTGAATCTGTTC
CAACCACTAATACACTAGTGTTGCACTTGAAATCCGAATCCAAGCAATATTAAAAATTAT
CGTCATCAATGCGGCTTCCCCAGCCCGCGGCGAGCTTTCCACGACAGGCTTTTTTTATTT
GGGTTGGTCGTCTGGTTTCTTTGAGTTCAAAAACAGGTCGGGATACTTAAGTTTTATTCG
TGCAGGTATCCCGCGCTTCGTCCAATTGAAAACGCATTGAGGGCTATTCCCTGTTATTCG
ACCAACTTCCGCGTAACTGCCGATTGATTGCAACAGGCGTTTGTCTTCATTGACTCTTTT
ATCCATAAATAAACCAAATGTTTAAATCTAATGCTAATATTAAACACTATGTTTAGATAA
AAATCAAGTCTTGTGTAACAACATTTTGTTTAAATATGGGAGAATAATTAAGCCAACCGC
GAATAAGATTAAAAATGACAATGCACGAGACAACTGACAGACTTTTTGAGATAGCCAAAG
AGCAGGGAGTTTTAAAGCCGGCTGACATAGCAGAGCGTCTGATATCAGCCAACAGGCTTT
GAAAAACTGGGAAAGTCGTGGCATAGCGGCAAAGGCGCTGCCTGAAGTAGCAAAAGCATT
CGGTGTATCTGAAACATGGCTGAGAACAGGTGAAGGCAGCCGAACCGCGCCCGTCCTTAT
TGACCCCGACCTACCCCACGAAGTCAAAGACATCCACCGCCCCGATGACGTGGAGCAGCAA
CGACCCGCTGCCCGACGATGATTATGTTTTCGTCCCCTACCTCAAAGAGAGCTGCTTCAA
AGGCGGAGTAGGCACGTATGAAATCCCCGATTACAACGGCTACCGCCTGCCGTTCGGCAA
ATCCACGCTTAAACGCAAAGGCATCAATCCCGACAACGTGTTTTGCTGCACCCTGACCGG

CGACAGTATGGAGGAAAAAATCGCAGAAGACGCGGCAATTGCCGTAGATACGGGCGAAAC
CGCCATACGCGACGGCAAAATCTACGCCTTCGCCCAGGACGGTATGTTCCGCGTGAAGTA
CCTGATACGGCAGCCTGGCAACAGCGTTCTGATACGCAGCCACAACAGCGGTTTCTATGG
CGACGAAAACGCCCCCTTGGACAGCCTGACCGTTATCGGCAGGGTATTTTGGTGGAGCGT
GCTGGATTGAAAAATGTTGCTATTACGACGAGATAATATTGATAGGGCTTTCAAGATTGT
CAAAAATAGGCGTTTTGATTCCCCTTGGTGGCCTGGTGAGTACGATGCCGGTATGAATTT
CCTTGGCGTACAAGGAGAGTTGAAGGTTCACGAGCTGCATCACAGAACAGCAACCCTGTG
CTTTGAGTGGCTTGGCGAAGTATCTGCGCCGCGCAGAAAAGAGAACTACAAAGACCTCAA
GCCAAATGTATTGTATGACTTTGATGGTTCCGGTAAGCATTTTGCCAACCCTGACGCAAG
GTATCTATTGCCCGTCGGTTCAAGCGGCTTAATCTTAAAACATATCCAAATCGATGACGA
AGACACTCTGTTGCGGCTATGGTGCGCACGAAATATCCCAATGCCACACCGGCTATCTAA
AATCCCGATGCTTCGGCAGTATTATCTAAGCAAGGCATGGCACGAAATTTATGCTATCAA
CCAACACCTAAGGAAAACGAAGCTGATAGTTGATGTGGCATACGACCCCACAGATTAAAC
AACCCGCCCGCATTATGCGGGCTTTTTTCATGCCCCGCCGAACCTGAAAACAACACAAAA
CCGACATAGCCGCGTACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 63>:

gnm_63

CCGTCTTTTGTGCTACCCTTGCCCGAATCATCCGATGTCTAAAAATTCTGCCTGATGGCA
GCCCTACAAACCCGAAGGAGTAGAAATGAAACTGTCCGAACTGTTCAACCCCGACGAATT
TGCCGCGCGGCATTTGAGTTTTGGCGACGAAGCGGCGTTGCTTGCCGCTGTCGGCGAGAA
AAGTATGGACGATTTTGTCGGCAACACCGTGCCGCAAAGCATCCGTATGCCGTCTGAACT
CGATTTGCCCGATGCCCTGACCGAAGCGGACGCGTTGGCAAAATTGAAAGGCATTGCGTC
GAAAAACATGATCAACAAATCCTATATCGGTTTAGGCTATTACCCGACCCGCGTGCCGAA
CGTGATTTTGCGTAACGTATTGGAAAATCCGGGTTGGTACACCGCCTACACGCCGTATCA
GGCGGAAATCGCGCAGGTCGTTTGGAAGCTTTGTTGAACTTCCAACAAGTGTGTATCGAT
TTGACCGGTTTCCCTGTGGCGGGCGCGTCTTTGCTGGACGAAGCGACCGCCGCCGCCGAA
GCGATGGCGATGGCGCACCGCGTGGGCAAGGTAAAATCCGAGCGTTTCTTTGTGGACGAG
CGCGTGTATCCGCAAACTTTGGACGTGATGAAAACCCGTGCCAAGTATTTCGGCTTCGAG
CTGGTGGTCGGCGATTTTGCCCAAGCCGACGAAGGCGAATACTTCGGCGCGCTGTTCCAA
TACGTCGGCAAAGACGGCGACGTGCAAGACTTGCAGGACGTTATCGGCCGTCTGAAAGCC
AAAGGCACGATTGTCGCCGTTTCCGCCGACATCATGAGCTTGGTTTTGCTGAAACCGCCT
GCCGAATTGGGTGCGGATATTGCGTTGGGCAACACACAACGCTTCGGCGTGCCGATGGGC
TTCGGCGGGCCGCACGCCGCTTATTTCGCGTTTAAAGACGAGTTCAAACGTTCCGCCCCG
GGCCGCATCATCGGCGTATCCAAAGACGCATCGGGCAAACCTGCCTTGCGCATGGCTTTG
TCCACCCGTGAGCAACACATCCGCCGCGAAAAAGCTACATCCAATATTTGTACCGCGCAG
GCATTGCTGGCGAATTTGGCGGGTATGTATGCCGTTTACCACGGCCCTGAAGGCGTGAAA
CGCATTGCCAACCGCATTCACGCGCTGGCTTCTGCCTTTGCCGATGCGCTGGTTTCAGAC
GGCCTGAATGTGGTTCACAAAGTCTTTTTCGATACTGTTACCATCGATTTTGGCAGTAAA
GAGAAAGCAGACCAAGTGTTTGCCGCTGCTTTGGCGTCGGGTTACAACCTGCGCCGCGTC
AACGATACTCAAGTTGCGGCTGCATTCCATGAAACATCGGCATACGAAGATTTGGTCGAT
TTGTACCGCGCGTTTACCGGCAAGGATACGTTTACATTTGCCGATGATGTCAAAGGCCGT
CTGAACGCCGAATTGCTGCGTCAGGACGACATTCTGCAACATCCTGTGTTCAACAGTTAC
CACACCGAACACGAAATGTTGCGTTATCTGAAAAAACTCGAAGACCGCGACTTGGCGATG
AACCGCAGTATGATTTCATTGGGCAGCTGTACTATGAAACTCAACGCGACTGCGGAAATG
TTGCCGATTACTTGGGCCGAGTTCACCGACATCCATCCTTACGCTCCCGAAGCGCAAACC
GCCGGCTACCGCGAATTGCTCGCCGATATGGAAAACAGCCTGAAAGCCATCACCGGCTTT
GACGCGATTTCCCTGCAACCAAATTCCGGCGCACAAGGCGAATACACCGGTATGCTCGCC
ATCCGCCGCTATCAGGAATCCCAAGGCGAAGCGCACCGCAACATCTGTCTGATTCCAAAA
TCAGCCCACGGTACCAACCCCGCCACCGCCGCCATGCTCGGTTTGAAAGTCGTCGTCGTC
GACACCGACGAACACGGCAACGTCAACATTGACGATTTGAAAGCCAAAGCCGAGCAACAC
CGCGACGCTTTGTCTGCCATCATGATTACCTATCCGTCCACCCACGGCGTGTACGAAGAA
GGCATCCGCGACATCTGCCGCATTATTCACGAAAACGGCGGACAGGTTTACATGGACGGT

GCGAACCTCAACGCCCAAATCGGCATCATGCAGCCTGCCGAAGTCGGTGCGGATGTGTTG
CACATGAACCTGCACAAAACCTTCTGTATCCCTCACGGCGGCGGCGGCCCGGGCATGGGT
CCGATTGGCTTGAAAGCCCATTTGGCTCCGTTTGCCCCGGGCCATACCTTGACCGACACC
CACAACGCGGCTGCCGATCAAACCGCCGTGGCTGCCGCAGCATATGGTTCTGCATCCATC
CTGCCGATTACTTGGATGTACCTGACCATGATGGGCAAACAAGGCATGGAACAGGCAACG
CGCTGGGCATTGCTCAACGCCAACTACGTCGCCAAAGCCTTGGGCGAGGATTATCCGATT
CTCTACACCGGCAAAAACGGCCGCGTCGCGCACGAATGTATCGTCGACTTGCGTCCGCTC
AAAGCCGAAAGCGGCATTACCGAAACCGACATCGCCAAACGCCTGATGGACTACGGCTTC
CACGCCCCGACCGTCTCCTTCCCCGTTGCCGGCACGCTGATGATCGAACCGACCGAAAGC
GAGAGCAAAGCCGAACTCGACCGCTTCATCGCCGCCCTGAAACAAATCAAACAGGAAGTG
CTGAAAGTCGGGCGCGGCGAATGGCCGAAAGACGACAACCCACTGGTCAACGCGCCGCAC
ACCGCCGCAGATATAACCGGCAACTGGGCGCATCCGTATTCCCGCGAAGAAGCCGTCTTC
CCGTTGCCGTTCGTCCGCGAACACAAGTTTTGGCCCTTCGTCAACCGCGTGGACGACGTG
TACGGCGACCGCAATCTCGTGTGCAGCTGCCCACCGATGGAAAATTATGAAGACTGACTG
TTGATATCTTAAAAAATGCCGTCTGAAACATTTTCAGACGGCATTTTCATCAACGGCAAA
CCAGTTGCACCAATACACGTATCTCGACTATAACTTTAAAACAAATGAGTTAAACCAGTA
TCCATACATCAGCTTTTTTATCATCCTACTTTTTATTCATCCGATCGTGCAAACAGATTT
CAAAGATGAAAAGCCTATTCACACCCTTTGATGTCATTTCCACACGGACAAACAAATATA
GTGGATTAACAAAAACCAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCT
AAGGTGCTCAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTACGGCTTCGTC
GCCTTGTCCTGATTTTTGTTAATTCACTATAAATTCCCATAAAAAAACGGAGCAGATACC
TGCCCCGTTTTTATTTAATCCGAAATTTTAATCTAAATTTAGAATTTTGCACCGGATTGG
TTTGCCATATAGTCAACAGCCGCTTTGACTTCGTCATCGCTCAAACCTGCATTGCCGCCT
TTGGCAGGCATCGCGTTAAAGCCTTCAAGGGCGTGTTTGTGCAAGGTTTCTTTGCCTTTT
TTGATACGCGGTGCCCAATCGTCTTTTTTGCCTATGCCGGGAATACCGGGAATCGAACCG
CCGTGGCACACCTGACAGGTTGCTTCGAAGACTTTTTACCGTCAACGCCGACCGCAGGG
GCTGCCGCACCCTTGTCTTCTGCCTTCGCTTCTGCCGGAGCTGCACTATCGGCAGGAGCA
GAAGCTGTTCCTGAAGCGGCATTGTCGGCAGGCGCAGCCTCATCAGGATTCGGGAAAGAA
CCGCCGCTTTTGTTCGCCATGTAAGTAATCGCCCGTTTAAGTTCCTGATCGGTCAGGTCT
GCCGCACCGCCTTTTGCAGGCATGGCGTTAAAGCCGTTCAGCGCGTGTTGGAACAAGGTA
TCGAAGCCTTGCGCGATACGCGGTGCCCAATCGCCGTTGTGTTCCAGTTTCGGAGCGTTC
GGCACATTGCTGTCCGCCGCGTGGCATTGGATACAGATTTTGCCGAAAATCTGTTCGCCT
TGGCGTTCGCCGACGGGGATGCCGTCGCCCATCGTCAATTGTCCGACAGGCTGGATACGG
GTCTGCGTTGCTGCTTCCGTAGTGGCATCGACATCGCCGAACGAGCCGCTGCCCGCCAGC
TTAATCAGGAAATAAAGGACTGCAATAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 64>:

gnm_64

TGTGTTGTTTGCACCGGTTGCnTGCGGATAATCGTGGGTAATGCGTTCGGCGGCATAAGC
TAAATCCGCCTGCACATAATACGGGCTGCGGCTGCCGTCTTCACTTGCCGCCTGCGCTGC
GGAAGAGAAGAGAAGAGAAGAGAAGCGGAGAGGAGGGGAGGGGAGGGGAGGGGAGGGGAG
GGGAGGGGAGGGGAGGGGAGGAGAAGGTTTTTTGGGGGCTGGATTCATTTTCGACTCCGT
ATTCGGTTTTAACTGATTAAAAAGAACAATTTTCAATGATGTTGCAGGAGCGGACTATAT
CAGGTTTGTGGCGATGTTTCAACACAATATAGCGGATGAACAAAAAAGAGAACGATTCTC
TAAGGTGCTGAAGCACCGAGTGAATCGGTTCCGTACTATCTGTACTGTCTGCGGCTTCGT
CGCCTTGTCCTGATTTTTGTTAATCCACTATAAAGACCGTCGGGCATCTGCAGCCGTCAT
TCCCGCGAAAGTGGGAATCTAGAAATGAAAAGCAGCAGGAATTTATCGGAAACGACCGAA
ACCGAACGGACTGGATTCCCGCCTGCGCGGGAATGACGGGATTTTAGGTTTCTGATTTTG
GTTTTCTGTTTTTGAGGGAATGACGGGATGTAGGTTCTTAGGAATGACGTGGTGCAGGTT
TCCGTGCGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGC
AATATTCAAAGATTATCTGAAAGTCTGAGATTCTAGATTCCCACTTTCGTGGGAATGACG
GTTCAGTTGCTACGGTTACTGTCAGGTTTCGTTTATGTTGGAATTTCGGGAAACTTATGA
ATCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAATATTCAAAGATT

ATCTGAAAGTCCGAGATTCTAGATTCCCACGAAAGTGGGAATCCAGGATGTAAAATCTCA
AGAAACCGTTTTATCCGATAAGTTCCTGCACTGACAGACCTAGATTCCCGCCTGCGCGGG
AATGACGGGATTTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAGGGAATGACGGGATTT
TAGGTTTCTGATTTTGGTTTTCTGTCCTTGTGGGAATGACGGGATGTAGGTTCGTGGGAA
TGACGTGGTGCAGGTTTCCGTGCGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAG
ACCTTAGAACAACAGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTAGATTCCCGC
TTTCGCGGGAATGACGAAAAGTGGTGGGAATGACGGTTCAGTTGCTACGGTTACTGTCAG
GTTTCGGTTATGTTGGAATTTCGGGAAACTTATGAATCGTCATTCCCGCGCAGGCGGGAA
TCTAGTCTGTTCGGTTTCAGTTATTTCCGATAAATGCCTGTTGCTTTTCATTTCTAGATT
CCCGCTTTTGCGGGAATGACGGCGACAGGGTTGCTGTTATAGTGGATTAACAAAAACCAG
TACGGCGTTGCCTCGCCTTAGCTCAAAGAGAATGATTCTCTAAGGTGCTTAAGCACGAGT
GAATCGGTTCCGTACTATCCGTACTGTCTGCGGCTCGCCGCCTTGTCCTGATTTTTGTTA
ATTCACTATATCGCGATTTTTCGGCATTTGCCTTTCGGGGCGGCTTGTGTCTCGTGCGTG
ATGTTGCGTGTGGGAATGTTCGGATTGTCAGAAGCAATATGGGAGAAGATGATGTATGAG
ATAAAACAGCCTTTTCATAGCGGATACTTGCAGGTGTCTGAAATTCATCAAATTTATTGG
GAGGAATCGGGCAATCCCGACGGTGTGCCGGTTATTTTTTTACATGGCGGGCCGGGCGCG
GGGGCTTCGCCTGAATGTCGGGGTTTTTTCAATCCCGATGTGTTCCGCATCGTCATCATC
GACCAGCGCGGTTGCGGACGTTCGCGCCCGTATGCTTGTGCGGAAGACAATACGACTTGG
GATTTGGTGGCGGATATTGAAAAAGTCCGTGAAATGCTGGGTATCGGGAAATGGCTGGTG
TTCGGCGGTTCGTGGGGCAGCACTTTGTCGCTGGCTTATGCCCAAACCCATCCTGAACGG
GTAAAGGGATTGGTGTTGCGCGGGATATTTTTGTGCAGGCCGTCTGAAACGGTGTGGCTG
AACGAGGCGGGCGGTGTGAGCCGGATTTATCCGGAACAATGGCAAAAATTTGTCGCGCCG
ATTGCTGAAAATCGGCGGAACCGGCTGATTGAGGCGTATCACGGATTGCTGTTTCATCAA
GATGAAGAAGTGTGCCTGTCTGCCGCGAAGGCTTGGGCGGATTGGGAAAGCTATCTGATC
CGTTTCGAGCCGGAGGAAGTGGATGAAGATGCTTATGCCTCGCTGGCAATCGCGCGTTTG
GAAAACCATTATTTTGTCAACGGCGGTTGGTTGCAGGGCGATAGGGCGATTTTGAACAAT
ATCGGCAAAATACGGCATATCCCGACTATTATCGTACAGGGGCGGTATGATTTGTGTACG
CCGATGCAGAGTGCGTGGGCGCTGTCGAAAGCCTTTCCCGAAGCGGAATTGAGGGTGGTT
CAGGCAGGGCATCGTGCGTTCGATCCGCCTTTGGTGGATGCGTTGGTTCAGGCAGTTGAG
GATATTTTGCCCCATTTGTTGTAAAAAGTTCCGCATAAAAAAGCAGCTTCTGTTTGGAAG
CTGCTTTTGTTTTGAATGGTTTAACGCAGTTCGGAATGGAGTTTGCCCAATAATGCGGAT
GCGTCTTTGCCGGCATATGCGCTGCCGTCTTTGTTGAGCAGGACGATGCGCGAGCCGTTG
GCGACAGGTTCTGCATAGACAATCAGTTCCGGCTGTTCGGCAGGTTTCTCCGCTTTGCCT
TTGCCCAGCAGGCGTTTGAACAGGCCGGGTTTTTGTTCGGTAACTGCATTGCTTTCGTTC
GGGGCTTTTTGAACCAGGAAGGCGTGGCGTTCGGTGTTTTGACCGACGACGGTCAGCCCG
ATGCGGTCGAGGGCGAGCACGGTGCGCCGCCAGTTTCTGCCGTAGTCGCCAAAGACAATC
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GATGCGTTTTCCGCCTGCTGTCCGTCAACGCCCAAATATTGCATAAAGCGCGTCAGGAAA
GCGGCTTCGAGGTTGGGATCGGACGGGGAGGGCTGCCATACGGTCGTGTCTTTGTCTTTG
CCGCCGTACACTTCTTTCATGGCTTTGTGGGCGAAGAAGATGTCGGAAACGCCGTTTTTG
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CCGACTTTGTCGAAGAGGCGGCGCAAGCTGTCTTGGGGGATTTTGGCGCGGTTTTCCGCC
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AACGGTTCGGACGGCATGGCTATATTTAAAGTTGTCCTGAGGCTTTCAGGGCGGCGCGGA
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CGTAAATCGGAATCAGTCGGTCGTTGAGTTCGCGTGCAAGGGCGATATCGCCTTGAAGCG
CGGCGCGGCACATATCGGCAAAGAGCTTGGGCGCGGCGTTGGCGGCTACGGTAATCACGC
CGTGTCCGCCGCAGAGCATGAACGGCAGGGCGGTGTGGTCGTCGCCGGAAAGGACGACGA
AGCCTTCGGGCGCGCGGTTGATGAGTTCGATGTTGCTGCCGATGTTGCCGCTGGCTTCTT

TCACGCCGACGATGTTGGGGATTTCGGCAAGGCGCAGGATAGTGTCGTTAGTCATGCTGA
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GGGTGTAGTCCGCCCCGGCTTTTTCGGCGGCTTGGGAAAGGGCGATGGCTTCGACGGTGT
TGTTTGCCCCTGTGCCGGCGATGACGGGGACGCGTTTGGCAACGTGTTTGACGACGGCTT
CGATGACGGCGGTGTGTTCTTCGACGGAGAGGGTGGCGGATTCGCCTGTCGTGCCGACGG
CAACGATGCCGTCCGTGCCGTTTTCAATGTGCCAGTCGATTAAGTCGCGGAGTTGTTCGT
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AGGTGCGGATGCGCCTGATTTGGTGTACGGTTTGGAAGACAGGCCGCCGTTCGGTAATGC
GCTCTTGAGCGCGGTTACCCATCTTTTGGCGATTTTTGTGCCGATGATTACGCCCGCGCT
GATTGTGGGCGGCGCGCTGGAATTGCCGGTGGAGATGACGGCGTATCTCGTGTCGATGGC
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GGGGATGCTGTCCATCCAGTCGGTGAATTTTTCGTTCGTTACCGTGATGATTGCGCTGGG
CGCGGGGATGAAAGAGGGCGGTTTGACTAAGGATGCGATGATTTCGACGCTCTTGGGCGT
ATCGTTTGTCGGCGCGTTTTTGGTGTGTTTCTCGGCGTGGCTTCTGCCGTATTTGAAAAA
AGTGATTACGCCGACGGTCAGCGGCGTGGTCGTGATGCTCATTGGTTTGAGTTTGGTACA
CGTCGGCATTACCGATTTCGGCGGCGGCTTCGGCGCGAAGGCGGACGGCACGTTCGGCTC
GATGGAAAACTTGGGGCTGGCATCGCTGGTGTTGCTGATTGTGTTGGTGTTCAACTGCAT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 65>:

gnm_65

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 66>:

gnm_66

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 67>:

gnm_67

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GACTATGATGTCGAAGTGGTTTATGTAAGGGAGTGAGGCGGCTTGAAAGGCGGGGCGAAC
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GCGATTTCGGCAGGCAGGTTCAACAGTTTGGACAGCAGCCAGGCGGTTGCCGGCATAATG
GCGAATTGTGCGATTACGCCGATGATGACGACTTTGGGATGTTTGAACAAAATATCGAAG
TCGGAAGGTTTGAGCGTCAAACCCATACCGAACATAATAATGCCCAACAGCCAAGGAATA
TAAGGCCCCGCCCATTTGAAGGTGTCGGGCGCGAAAAAAGCGGCGGCGGCAAAGAGCGCG
GCCCAGAGGGAAAATGTTTTTCTCGATAAAGCTGCTGATTTTACTGAGGATATTCATAAA
TAATGCGTTGCGTGTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 68>:

GNMBA22F gnm_68

ATGACGnCATAGGGnTTTCCGTTTTCCCGATAAATTACCACAACCCAAAATCCCGTCATT
CCCGCGAAAGGATATATCCGGCTCGTTCGGTTTCAGTTTTTAGGTTTCAGGCAACTTCT
GAnTCGTCATTCCCACGCAGGTGGGAATCTAGGTCTnTCCGCACGGGAACTTATGCGCnG
TCATTCCCGCGAAAGGGGATGCCAGATTCTTCGGTACAGAAACTTATCGGATAAAACGGT
TTCTTTAGATTCTACGTCCTAGATTCCCGCCTACGCGGGAATGACGATGGAAAGATTGTT
GTTGCTTCGGATAAATTTCTGCAGTTTTAAATAACCnGATTCCCGCCTGCTCGGGAATGA
CGGCATAGGTTTTTTTGTTTTTCCGATAAATTACCACAACCCAAAATCCCGTCATTCCCG
CGACGGCGGGAGATCCAGTCCTTTAAACTCCAGCCATTCCCGATAAATTCCTGTTACTTT
TCGTTTCTAGATTCCCGATTTTCGnGGGAATGGATGGATn

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 69>:

gnm_69

CATGGTTTGGATATCCATGCTGCTCCCTATGTACATAATAAAAAAATGGCCCCGTGGCCA
TTTTTCGTCAAAGTTGAAAAATCGGCGTGATTATAACCGCTTTTGCGGAGAAATGAAAGT
GTTGATTTATTTTGTGTTTTTGGGACGGAAAAAAGCGGGTGTAAGGGAGGTTTGTAATGG
GAAATCGTGAATATTGTTGACAAAACAAATGTATCTATTTGTCGCGTGCATGATTTTTAT
GTTTGTAAATCAATATATTGATATTATTTTCCGTGTTCGGGCGGCATGGAATCGGGCGGA
GGACAGGTATTTTCCATCCTTGCACAAAGCCTGCTGCAAGCCTAAAATCGGGCGGGTTAT
TGTTCAGAATCAAGGCTGCATCATGTCTCTTTATCCGATTTACAATTTTTCCGCCGGCCC
TGCCGTATTGCCCGAAGCCGTGTTGGAAACGGCGCGGCAGGAAATGTTGGACTACAACGG
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TCATGCGGAACAGGATTTGAGGCAGCTTTTGAAAGTGCCTGACAACTATAAGATATTGTT
TCTGCAGGGCGGAGCAACAACCCAATTTAATATGGCAGCCATGAATCTGGCACACGGTTT
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CCGTTTGACCGATACGGAAATCCGTTTGGCGGCGCATGGCGGCGAGCAGTTCGACTATCT
CGACCTGCCGCCTGTGGAAACGTGGGATGTTGCACCCGATTCGGCGTTTGTCCATTTTGC
CGTCAATGAAACGGTCAACGGGCTGCAATACCGTGAAGTGCCGTGCCTTTCAGAAGGCAT
GCCGCCGCTGGTGTGCGATATGTCCAGCGAGATTTTGTCGCGCGAGTTTGATGTTGCCGA
CTACGGACTGATTTACGCAGGCGCACAGAAAAACATCGGGCCGGCAGGAGTTACGGTGGT
GATTGTGCGTGAGGATTTGCTCGAGCGTTGTCCGAACGATATTCCCGATGTGTTCAACTA
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GTCGGGGCTGGTGTTCCGCTGGCTACAGGCGCAGGGCGGTGTGAAAAAAATTGAAGCGGT
CAATCGGCTGAAGGCGCAAACCTTGTATGAGACGATAGACGGCAGCGATGGTTTTTATAT
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GGAGCTTGACCGCCGTTTTGTGCTGGAAGCCGAATTGCAGGGCTTGTGCCTGCTTAAGGG
CTATAAAACCGTCGGCGGTATGCGTGCCAGCATTTATAATGCGATGCCGCTTGAAGGCGT
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CCTTTTCCAACCCTTATCCGACACATTCCAAATGATAAAACCGAACCTGAGGCCGAAGCT
CGGCTCTTCCGCGCTGATTGCCTTCCTTTCCCTGTATTCCTCGCTGGTATTGAATTACGC
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TCTGAAGCCTTCGGACGGCATATGTGTCCGAACACCCGACCGATGACCGGAGTATAACGA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 70>:

gnm_70

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 71>:

gnm_71

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TTTTGGTGCGGGCGCGCCGACCGAAGCCTGGTCCTTCAGCTTCGCCAGCACCGCAGGGCC
GATGCCCTTTACCTTGGTCAAATCGTCTACAGACTTGAACGCACCGTTTTGCGCACGGTA
TTCCGCAATGGCCTTCGCCTTCGCCGGGCCTATGCCCGGCAGCGCCTCCAACTCCTGCTG
CGAAGCCGCATTGATGTTTACCGCCGCAAGGGAGAAGGCGCAGGAGAACAGCATACAGAA
CAGCACGAACATTTTCTTCATGGTTTTTCCTTTAAGGGTTGCAAACAATAAACCGCATCT
TGCGACGATAAAACGAGTCATTCTAAAATGAATATCCCAAAGTTTCAAGCCGTTCCTCCG
CAAACCCGACCGGACACCGTACGGATGCCGTCCCGCCATCACCGACATTTTTTCCGGGCA
AAGCAAACATTTTTTCCGGGCAAAGCAAAAACCCCCGAATAATCGGGGGTTTTCTGAATG
GGTGTTTGGCAGTGACCTACTTTCGCATGGAAGAACCACACTATCATCGGCGCTGAGTCG
TTTCACGGTCCTGTTCGGGATGGGAAGGCGTGGGACCAACTCGCTATGGCCGCCAAACTT
AAACTGTTACAAATCGGTAAAGCCTTAATCAATATATTCGGTAATGACTGAATCAGTCAG
TAAGCTTTTATCTCTTGAAGTTCTTCAAATGATAGAGTCAAGCCTCACGAGCAATTAGTA
TGGGTTAGCTTCACGCGTTACCGCGCTTCCACACCCCACCTATCAACGTCCTGGTCTCGA
ACGACTCTTTAGTGCGGTTAAACCGCAAGGGAAGTCTCATCTTCAGGCGAGTTTCGCGCT
TAGATGCTTTCAGCGCTTATCTCTTCCGAACTTAGCTACCCGGCTATGCAACTGGCGTTA
CAACCGGTACACCAGAGGTTCGTCCACTCCGGTCCTCTCGTACTAAGAGCAGCCCCGTCA
AACTTCCAACGCCACTGCAGATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 72>:

gnm_72

TAAATGGGACTATAAGCAGGAAGGCTTAACCAGAGCCGGTGCAGCGATTGTTACCATAAT

CGTAACCGCACTGACTTATGGATACGGCGCAACCGCAGCGGGCGGTGTAGCCGCTTCAGG
AAGTAGTACAGCCGCAGCTGCCGGAACAGCCGCCACAACGACAGCAGCAGCTACTACCGT
TTCTACAGCGACTGCCATGCAAACCGCTGCTTTAGCCTCCTTGTATAGCCAAGCAGCTGT
ATCCATCATCAATAATAAAGGTGATGTCGGCAAAGCGTTGAAAGATCTCGGCACCAGTGA
TACGGTCAAGCAGATTGTCACTTCTGCCCTGACGGCGGGTGCATTAAATCAGATGGGCGC
AGATATTGCCCAATTGAACAGCAAGkTAAGAACCGAACTGTTCAGCAGTACGGGCAATCA
AACTATTGCCAACCTTGGAGGCAGACTGGCTACCAATCTCAGTAATGCAGGTATCTCAGC
TGGTATCAATACCGCCGTCAACGGCGGCAGCCTGAAAGACAACTTAGGCAATGCCGCATT
AGGAGCATTGGTTAATAGCTTCCAAGGAGAAGCCGCCAGCAAAATCAAAACAACCTTCAG
CGACGATTATGTTGCCAAACAGTTCGCCCACGCTTTGGCTGGGTGTGTTAGCGGATTGGT
ACAAGGAAAATGTAAAGACGGGGCAATTGGCGCAGCAGTTGGGGAAATCGTAGCCGACTC
CATGCTTGGCGGCAGAAACCCTGCTACACTCAGCGATGCGGAAAAGCATAAGGTTATCAG
TTACTCGAAGATTATTGCCGGCAGCGTGGCGGCACTCAACGGCGGCGATGTGAATACTGC
GGCGAATGCGGCTGAGGTGGCGGTAGTGAATAATGCTTTGAATTTTGACAGTACCCCTAC
[illegible]AATGCGAAAAAGCATCAACCGCAGAAGCCCGACAAAACCGCACTGGAAAAAATTATCCA
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CATTTGGATAAGCAATATCCGTAATGGCATCACAGGCCCGATTGTGATTACCAGCTATGG
GGTTTATGCTGCAGGTTGGACAGCTCCGCTGATCGGTACAGCGGGTAAATTAGCTATCAG
CACCTGCATGGCTAATCCTTCTGGTTGTACTGTCATGGTCACTCAGGCTGCCGAAGCGGG
CGCGGGAATCGCCACGGGTGCGGTAACGGTAGGCAACGCTTGGGAAGCGCCTGTGGGGGC
GTTGTCGAAAGCGAAGGCGGCTAAGCAAGCTGCTCCTAAAGAAACAATAAACAATTTGGC
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GGATGCATGGAAGACGGGATTTAACAATAGAGTAAGGAAAGGAGCAGGCTTGCTTGATGC
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TATCAGTACTGGAGAATGGGCAGGAACAAAAATTGCATTAAGAAATTTTTCAAAAACAGA
GAATTCAACTCAAGCACGATGGACATTAGATTTGCAGAATCCTCCATCATTTATTAAAGG
TACTAAATTGGAGCTTAAATTCCAATAATTTACAAAGGATTTTACCGTGGATGAGAAACA
AAAAATTAAGATTCTTGATTTTCAAATCGATTTATCCTCAATTTTTAACTCTTATAAAAA
TCAAATGGGTATTAATATTCAAGATGAAAACTTAAAAAACAATTTCTGTTCTTTTATGGA
AGAACTGTTAAATGACGGTTCAATCCGTTTACATGATTATACCGACGGTATCGGAATTCC
TCTAACTGGAACTTCAAAAGAACAAGTGCAGAAATTGAAAGACATATGGCCTACTTTGGA
AGATGCCCAAGCAATATGGCCTGAAGACCCTTGGTATTACTTAGAATGGCTTTGGTGGGA
TATTGCGTGTCCAATAGATTTGGCCGATTTGCCGAATATTGATATTTATGAGCAAGCGTA
GGTATGGTTAGCCGCCTTTAGCGGCGTAACCGTACGCATATCAGCAAACTTTATAAAATA
ACAAGGCCGTCTGAAATCTGTTTTTCAACTTTTTCAGACGGCCTTGCAACTTGGCATTTC
ATTCGTACGGTTACGCgCTAAAGGCGGCTAACCGTACCTACGAGCTCTGATAAAAATGAT
TTATGGAAGCAAGCTGTAGCCTGCATGAAACCTAAAATCCATGCGTAAGGTGTGTGCTTC
AGCGCGCACGCGTTCCATGATTTACGGCTCAATGCCGTCTGAAAAGCTCACAATTTTTCA
GACGGCATTTGTTATGCAAGTAAATATTCAGATTCTCTGTATACTGTTCAGACGCGTGCG
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GCGCGCCGTATGCCAATGAAAACAGCCGCATCCTGCTGAGCACCACGGATATCAGTTCGG
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AGCTCTACACCTTCGATAAACGCAGCTATAAAACCGGTAAGTGGTACAAACTAAAACATG
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AAGGTATTGAAATCAAATCCGGCGGCAATATCGGTGCCCACGCCACCTTGTTTGATGCAC
CCCGCGGCTCCGTTAAAATCGAAGCCGGACGTGGGCTGGTTCTCTATGCCGTGGAAGATC
TCAACTACGACAAACTTGACACCCGTACCAAGCGCAAATTTATCGGCATTACCTACGACA
AGGTGCACGACACCACCACCCACACCATGAAAACCGCCCTGCCCTCAAGGGTAGTTGCAG
AATCGGCCAACCTGCAATCAGGCTGGGACGCCAAACTGCAAGGCACCCAGTTTGAAACCA
CGCTGGGCGGCGCAGCCATCCGTGCAGGTGTAGGCGATCAGGCACGAGCAGATGCCAAGA
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AAGGCAATCTGAAAACCGAAATCGAAAAGCTGGCCAAACAGCCCGAGTATGCCTATCTGA
AACAGCTCCAAGTAGCGAAAAACGTCAACTGGAACCAGGTGCAACTGGCTTACGATAAAT

GGGACTATAAGCAGGAAGGCTTAACCAGAGCCGGTGCAGCGATTATCGCGCTGGCTGTTA
CCGTGGTTACTGCGGGCGCGGGAGTCGGAGCCGCACTAGGCTTAAACGGCGCAGCCGCAG
CAGCGGCCGATGCCGCCTTTGCCTCACTCGCTTCTCAGGCTTCCGTATCGCTCATCAACA
ATAAAGGCGATGTCGGCAAAACCCTGAAGGAACTGGGCAGAAGCCGCACGGTAAAAAATC
TGGTTGTAGCGGCGGCAACGGCAGGCGTATCCAACAAACTCGGTGCCTCTTCCCTTGCCA
CTTGGAGCGAAACCCCTTGGGTAAACAACCTCAACGTTAACCTGGCCAATGCGGGCAGTG
CCGCGCTGATCAACACCGCTGTTAACGGCGGCAGCCTGAAAGACAATCTGGAGGCAAATA
TCCTGGCGGCATTGGTGAATACCGCGCATGGGGAGGCGGCGAGTAAGATCAAAGGACTGG
ATCAGCACTATGTCGCCCACAAAATCGCTCATGCCGTAGCGGGCTGTGCGGCTGCAGCGG
CGAATAAGGGCAAATGTCAGGACGGCGCGATCGGTGCGGCTGTGGGTGAGATTGTCGGGG
AGGCTTTGGTTAAAAATACCGATTTTAGCGATATGACCCCGGAACAATTAGATCTGGAAG
TTAAGAAAATTACCGCCTATGCCAAACTTGCGGCAGGTACAGTTGCAGGCGTAACGGGAG
GAGATGTCAATACTGCTGCACAAACCGCACAAAACGCGGTAGAAAATAATGCGGTTAAAG
CTGTTGTAACTGCTGCAAAAGTGGTTTATAAGGTAGCCAGAAAAGGATTAAAAAACGGGA
AAATCAACGTTAGAGATTTAAAACAGACGTTGAAAGACGAAGGTTATAATTTAGCCGACA
ACCTGACCACCTTATTCGACGAAACATTGGATTGGAACGATGCCAAAGCCGTTATTGATA
TTGTCGTCGGAACAGAGCTGAATCGCGCTAATAAAGGGGAAGCGGCACAAAAGGTCAAGG
AAGTTTTAGAAAAAAATCGTCCTTATATCCCTAATAAAGGTGCTGTACCGAATATGAGTA
CATACATGAAAAATAATCCTTTTGGAAAACAGCTGGCTCAAATTTCAGAAAAGACAACGC
TTCCGACGCAGCAAGGGCAGTCTGTCTTCTTGGTAAAAAGAAACCAAGGGTTATTAAAAA
GCCGGGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 73>:

gnm_73

GATGATGACGAAATTTACAGACTGTACGCGGTCAAACCGTATTCAGCCGCCAACCCACAG
GGGATACATCTTGAAAAACAACAGACAAATCAAACTGATTGCCGCCTCCGTCGCAGTTGC
CGCATCCTTTCAGGCACATGCTGGACTGGGCGGACTGAATATCCAGTCCAACCTTGACGA
ACCCTTTTCCGGCAGCATTACCGTAACCGGCGAAGAAGCCAAAGCCCTGCTAGGCGGCGG
CAGCGTTACCGTTTCCGAAAAAGGCCTGACCGCCAAAGTCCACAAGTTGGGCGACAAAGC
CGTCATTGCCGTTTCTTCCGAACAGGCAGTCCGCGATCCCGTCCTGGTGTTCCGCATCGG
CGCAGGCGCACAGGTACGCGAATACACCGCCATCCTCGATCCTGTCGGCTACTCGCCCAA
AACCAAATCTGCACTTTCAGACGGCAAGACACACCGCAAAACCGCTCCGACAGCAGAGTC
CCAAGAAAATCAAAACGCCAAAGCCCTCCGCAAAACCGATAAAAAAGACAGCGCGAACGC
AGCCGTCAAACCGGCATACAACGGCAAAACCCATACCGTCCGCAAAGGCGAAACGGTCAA
ACAGATTGCCGCCGCCATCCGCCCGAAACACCTGACGCTCGAACAGGTTGCCGATGCGCT
GCTGAAGGCAAACCCAAATGTTTCCGCACACGGCAGACTGCGTGCGGGCAGCGTGCTTCA
CATTCCGAATCTGAACAGGATCAAAGCGGAACAACCCAAACCGCAAACGGCGAAACCCAA
AGCCGAAACCGCATCCATGCCGTCCGAACCGTCCAAACAGGCAACGGTAGAGAAACCGGT
TGAAAAACCTGAAGCAAAAGTTGCCGCGCCCGAAGCAAAAGCGGAAAAACCGGCCGTTCG
ACCCGAACCTGTACCCGCTGCAAATACTGCCGCATCGGAAACCGCTGCCGAATCCGCCCC
CCAAGAAGCCGCCGCTTCTGCCATCGACACGCCGACCGACGAAACCGGTAACGCCGTTTC
CGAACCTGTCGAACAGGTTTCTGCCGAAGAAGAAACCGAAAGCGGACTGTTTGACGGTCT
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GCTGCTTTTGCGCCTTGCCCAATCCAAACGCGCGCGCCGTACCGAAGAATCCGTCCCTGA
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GCCTTCCAACCGCATCGACTTGGATTTCGACAGCCTGGCAGCCGCGCAAAACGGCATTTT
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CATCGAATCCACAGACAGCGTGTACGAGCCCGAGACCTTCAACCCGTACAACCCTGTCGA
AATCGTCATCGACACGCCCGAACCGGAATCTGTCGCCCAAACTGCCGAAAACAAACCGGA
AACCGTCGATACCGATTTCTCCGACAACCTGCCCTCAAACAACCATATCGGCACAGAAGA
AACAGCTTCCGCAAAACCTGCCTCACCCTCCGGACTGGCAGGCTTCCTGAAGGCTTCCTC

GCCCGAAACCATCTTGGAAAAAACAGTTGCCGAAGTCCAAACACCGGAAGAGTTGCACGA
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CAACGCCGCCGCAGACGATTTGTCCGCATTGCTTCAACCTGCCGAAGCACCGTCCGTTGA
GGAAAATATAACGGAAACCGTTGCCGAAACACCCGACTTCAACGCCACCGCAGACGATTT
GTCCGCATTACTTCAACCTTCTAAAGTACCTGCCGTTGAGGAAAATGCAGCGGAAACCGT
TGCCGATGATTTGTCCGCACTGTTGCAACCTGCTGAAGCACCGGCCGTTGAGGAAAATGT
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GGACGAAGGTTTTGTGTTCGTAAGCCGCCATCAGCATACCCAAATTGTAGGGCGTGAGGC
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TGCCGTCCACATAAACGGCATCCGCACCGTCGGGCAGGCGCAAAGCCGTATGCAGCGCGG
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AAAGAAAAACGCTTTATCTTTGAAGGCAGGCATTCCGCCTCCGACAAACTGGTCAACGGC
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GAGATTTTAACCCTTTCCGACGACAAAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 74>:

gnm_74

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 75>:

gnm_75

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 76>:

gnm_76

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 77>:

gnm_77

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ATCTTCGAACTGGCTGCCGCATTGGACAGCTACATCCCGACTCCCGAGCGAGCCGTGGAC
AAACCGTTCCTGCTGCCTATCGAAGACGTGTTCTCCATTTCCGGCCGCGGTACAGTAGTA
ACCGGCCGTGTAGAGCGCGGTATCATCCACGTTGGTGACGAGATTGAAATCGTCGGTCTG

AAAGAAACCCAAAAAACCACTTGTACCGGTGTTGAAATGTTCCGCAAACTGCTGGACGAA
GGTCAGGCGGGCGACAACGTAGGCGTATTGCTGCGCGGTACCAAACGTGAAGACGTGGAA
CGCGGTCAGGTATTGGCTAAACCGGGTACTATCACTCCTCACACCAAATTCAAAGCAGAA
GTATACGTACTGAGCAAAGAAGAGGGTGGTCGTCACACTCCGTTCTTCGCCAACTACCGT
CCGCAATTCTACTTCCGTACCACCGACGTAACCGGCGCGGTTACTTTGGAAGAAGGTGTG
GAAATGGTAATGCCGGGTGAAAACGTAACCATCACCGTAGAACTGATTGCGCCTATCGCT
ATGGAAGAAGGCCTGCGCTTTGCGATTCGCGAAGGCGGCCGTACCGTGGGTGCCGGCGTG
GTTTCTTCTGTTATCGCTTAATTGAAGGATATTGATAAATGGCAAACCAAAAAATCCGTA
TCCGCCTGAAAGCTTATGATTACGCCCTGATTGACCGTTCTGCACAAGAAATCGTTGAAA
CTGCAAAAACGTACCGGTGCAGTTGTAAAGGCCCGATTCCTTTGCCGACCAAAATCGAGC
GTTTCAACATTTTGCGTTCTCCGCACGTGAACAAAACTTCCCGTGAGCAATTGGAAATCC
GCACCCACTTGCGCCTGATGGACATCGTGGATTGGACCGATAAAACTACCGATGCGCTGA
TGAAGCTGGATTTGCCGGCCGGTGTTGATGTAGAAATCAAAGTCCAATAATTCGGACTAT
AAAAAATCCCCAAGCAATCAATGCTTGGGGATTTTTTATGTTATGCCGAGACCTTTGCAA
AATTCCCCAAAATCCCCTAAATTCCCACCAAGACATTTAGGAGCACCTTCTTCCAGCAAA
CCGCCCAAGCCATGATTGCCAAACACATCGACCGGTTCCCACTATTGAAGTTGGACCGGG
TAATTGATTGGCAGCCGATCGAACAGTACCTGAATCGTCAAAGAACCCGTTACCTTAGAG
ACCACCGCGGCCGTCCCGCcTATCCCCTGTTGTCCATGTTCAAAGCCGTCCTGCTCGGAC
AATGGCACAGCCTCTCCGATCCCGAACTCGAGCACAGCCTCATCACCCGCATCGATTTCA
ACCTGTTTTGCCGCTTTGACGAACTGAGCATCCCCGATTACAGTCATCAACCATATTCCG
GTTTGTCGGAGAAAGATGCATACGCTGTGATGACCGGATACCGACCCGTTAAAAGAGTCC
GACCCTATGCCGTCTGAAAATTCAAAACGCTTCAGACGGCATATTGAAGATATTTCTGAT
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AAGTTTAACTTTGTCTGAAAGACAGGCCAATCGTAGCCTGTCCCTTTACTTTAAAAGGAA
AATAATCATGACTTTAGGTCTGGTTGGACGCAAAGTTGGTATGACCCGCGTGTTCGACGA
ACAGGGTGTTTCTGTTCCGGTAACCGTTTTGGATATGTCTGCCAACCGCGTTACACAAGT
AAAATCCAAAGATACTGACGGCTATACTGCCGTTCAAGTTACCTTTGGTCAGAAAAAAGC
CAATCGTGTCAACAAAGCCGAAGCCGGGCACTTTGCAAAAGCAGGTGTTGAAGCCGGTCG
CGGTTTGATTGAGTTTGCTTTGACTGAAGAAAAACTGGCTGAATTGAAAGCTGGTGACGA
AATCACCGTTTCTATGTTTGAAGTCGGTCAACTGGTCGATGTAACCGGTACCTCTAAAGG
TAAAGGTTTCTCCGGCACGATTAAACGTCATAACTTCGGTGCCCAACTTATTCCGCTTGC
AGCTTGCCGCTGAAGCGTACCAATACAGACTCGGGCATATCGAGCGGCATTACGCCCGTT
GCGGCGGCAAATGCAACGGGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 78>:

gnm_78

TTTTCnTAGCAGGCATCAAACTGCCCGGCAGCATCGTCGGCATGGGCGTGCTGTTTGCGC
TTTTGCAGGCGGGTTGGGTCAAAACGTCTTGGCTGCAACAGCTTACCGACGCGCTGATGT
CGAACCTGACGCTGTTCCTCGTGCCGCCCTGCGTGGCGGTCATCAGCTATTTGGATTTGA
TTGCCGACGATTGGTTTTCGATACTGGTTTCCGCCTCCGCCAGCACTTTGTGCGTACTGC
TGGTTACGGGCAAAGTCCACCGGTGGATACGGGGTATTATCCGATGAACGAAATCCTCAG
GCAGCCCAGCGTTCTGCTTTTCCTCACGCTTGCCGTGTACGCGCTTGCGATTATCGTGCG
CACGCGCACGGGCAATATCTTCTGCAACCCCGTACTCGTCAGCACTATCGTGCTGATTGC
CTACCTGAAAATCCTCGGTATCGATTATGCGGTGTACCACAACGCCGCGCAATTCATTGA
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AATCTTCAACCAGTGGCTGCCCGTCATCGTTTCACAGCTTGCGGGCAGCGTTACGGGCAT
TGTTACAGGGATGTATTTTGCCAAATGGCTGGGCGCGGAACGCGAAGTCGTCCTCTCGCT
CGCGTCCAAATCTGTTACCAACCCCATCGCTATTGAAATCACCCGCTCCATCGGCGGCAT
TCCCGCCATTACCGCCGCCACCGTCATCATTGCCGGTCTGGTCGGACAGATTGCCGGTTA
CAAAATGCTGAAGAACACGGTCGTCATGCCCTCGTCCGTGGGTATGTCGCTCGGCACGGC
TTCGCACGCGATGGGGATTGCCGCCTCGCTCGAACGCAGCCGCCGTATGGCGGCATACGC
GGGGCTGGGGCTGACGTTCAACGGCGTACTGACCGCGCTGATTGCGCCGCTGCTCATCCC
CGTTTTGGGATTTTGAACCCGTTTCAGACGGCATTTCAGCCCATGCTGTCTGAACGCCGA

CACACTCGCAAGGAGAACCGTTATGGCTGTCAACCTGACCGAAAAAACCGCCGAACAACT
GCCCGACATCGACGGCATTGCCCTCTACACCGCCCAAGCAGGCGTGAAGAAGCCCGGGCA
TACCGACCTGACACTGATTGCCGTAGCCGCCGGCAGCACCGTCGGTGCAGTCTTCACGAC
CAACCGTTTCTGTGCCGCGCCCGTCCACATCGCCAAATCGCACCTTTTCGACGAAGACGG
CGTGCGCGCCCTCGTCATCAACACGGGCAACGCCAACGCGGGTACGGGCGCACAGGGCAG
AATCGATGCTTTGGCAGTGTGTGCCGCCGCCGCCCGGCAAATCGGCTGCAAACCGAACCA
GGTGCTGCCCTTCTCCACCGGCGTGATTCTCGAACCGCTGCCCGCAGACAAAATCATCGC
CGCCCTGCCCAAAATGCAGCCTGCCTTCTGGAACGAAGCGGCACGCGCCATCATGACCAC
CGACACCGTGCCCAAAGCCGCCTCGCGCGAAGGCAAGGTCGGCGACAAACACACCGTCCG
CGCCACGGGCATCGCCAAAGGCTCGGGCATGATTCATCCCAATATGGCGACCATGCTCGG
TTTCATCGCCACCGATGCCAAAGTTTCCCAACCCGTCCTCCAACTGATGACGCAGGAAAT
CGCCGACGAAACCTTCAACACCATCACCGTTGACGGCGACACCAGCACCAACGACAGCTT
CGTCATCATCGCCACCGGCAAAAACAGCCAAAGCGAAATCGACAACATCGCCGACCCGCG
TTACGCCCAACTCAAAGAATTGTTGTGCAGCCTCGCGCTCGAACTCGCCCAAGCCATCGT
CCGCGACGGCGAAGGTGCGACCAAGTTCATCACCGTCCGCGTCGAAAACGCCAAAACCCG
CGACGAAGCCCGCCAAGCCGCCTACGCCGTGGCACGTTCGCCGCTGGTCAAAACCGCCTT
TTTCGCCTCCGACCCCAACCTCGGCAGGCTGCTCGCCGCCATCGGTTATGCCGGCGTTGC
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CGGACGCGCCGCAAGCTACACCGAAGCACAAGGGCAGGCGGTGATGTCGAAGGCCGAAAT
CACCGTCCGCATCAAGCTGCATCGCGGACAAGCCGCCGCCACCGTCTATACCTGCGACCT
GTCGCACGGATACGTTTCCATCAACGCCGATTACCGTTCCTGACCCGACACGGCTTCAGA
CGGCATACATAAAATGCCGTCTGAACCGCCGGACAACATACCATGACCTCCACATTCCCC
CGCCGCCTCGCCCGCAAAATCCGCCAAACCCGCCGCCTGTCGCGCAAAAGCATCGCCTTT
CTGTTCCTTTTGGCAGGTTCGGCACTCGTCGCCCTGACCGCGCTGTTTTTTGCCCATCTT
GCCGATTTTGCGCTGGAACTGAACGCCAAACTGGTTCAACAATACCCGTGGTTCGCGTGG
GTCGCGCTTCCTTTGGGTTTACCGCTTATTGCGTGGCTCACACGCAAATTCGCCCCCTTC
ACCGCCGGCAGCGGCATCCCGCAGGTCATCGCCTCACTGTCGCTGCCCTACGGCGCACAG
AAAACGCGGCTGATCCGCCTCGGGCAGACGCTGCTGAAGATTCCGCTAACCTTTTTGGGT
ATGCTGTTCGGCGCGTCCATCGGACGCGAAGGTCCGTCCGTGCAGGTCGGCGCGGCAGTG
ATGGGCGCGTGGGGCGCGTGGTGCAAGAAACACGGCTTGGCATTCAAAGGGATGCAGGAA
AACGATTTGATGGCGGCGGGCGCGGCGGGCGGTTTGGCAGCCGCGTTCAACGCGCCGCTG
GCGGGCGTGATTTTCGCCATTGAGGAACTCGGGCGCGGCATCATGTTGCGCTGGGAGAGG
CAAATTCTTTTGGGCGTGCTCGCCTCCGGTTTCATACAGGTCGCCATTCAGGGCAACAAC
CCGTATTTTTCCGGCTTCAACGGCGGCGTATTGGAACATATCTTTCTGTGGGTCGCACTG
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GCGGCGTTTGCACCGCGCAAGATACGCGGCTTCATCCGCAACCGTCCGCTGCTGCTGGCG
GCACTGATGGGGCTGCTGCTCGCCCTGCTCGGCACGTTCTACCAAGGCAAAACCTACGGC
ACCGGCTACCACGAAGCCGCCCAAGCCCTGCACGGCATCTACGAAGCCCCCTTCGGACTC
GCCGCCGCCAAATGGCTCGCCACCGTATTCAGCTATTGGGCAGGCGTTCCGGGCGGCATT
TTCACTCCCTCGCTGACCATAGGCGCGGTTTTGGGCGAGCATATCGCCGCCATCGCCGAC
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CTGTTTTGGATGCTAATTGCCTGCATTTTCGCCTCGCAGGTTTCGCGCCAGTTTTCGCCG
CGTCCGTTCTACCACGCATCGGGAATGCGCTTCCGCCAGCGCGTGCTTCAAGAAACCGCC
GCCCAAACCGGCAATGCGCCCGCAAGACCGCAAACAGCAAACAGCAAAACGGGAATGCCG
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CGCCGCCGCTTGAAATTTCAGCAACAATGCCGTCTGAACGACAGAATGCGGTTTTCAGAC
GGCATTTCCCCATCCCGATATTGCCTAAACAAAACCGAAGCGTTTGCTATAATTCTATTT
TTTACCGCATACGCACCAATCATGTTTCCCGATTTCTCCCAAACCCTCTCCAAAGACCGC
CACTTCCTGCGTTCCGCCTTCAAAAATCCCAACAAATACGGCGGTTTGTCCAAAATCGAA
GAAAAATACCGAAAATCGCACGAAATCTTTTTGAAGCGTTTGGCAGCCTTGCCAAAACCC
GAATTCGACAACACCCTGCCCGTTCACGAGAAGCTCGAAGAAATCAAAAAAGCCATTGCC
AAGAATCAGGTAACGATTATTTGCGGCGAAACCGGTTCGGGCAAAACCACGCAGTTGCCC
AAGATTTGCTTGGAACTCGGGCGTGGGGCGGCAGGATTGATCGGGCATACCCAGCCGCGC
CGTTTGGCCGCGCGCTCCGTAGCAGAGCGGATTGCCGAAGAGCTGAAATCCGAAATCGGC
AGCGCGGTCGGCTATAAAGTACGCTTCACCGACCACACCTCGCGCGATGCCTGCGTCAAG
CTGATGACCGACGGCATCCTGCTGGCGGAAACGCAGACCGACCGTTATCTCGCCGCCTAC

GACACGATTATCATCGACGAAGCGCACGAGCGCAGCCTGAACATCGACTTCCTTTTGGGC
TATTTGAAACAACTCCTGCCGCGCCGCCCCGATTTGAAAGTCATCATCACCTCGGCAACG
ATAGACGCAGAACGCTTCTCCCGACACTTCAACGGCGCGCCCGTTTAGAAGTGAGCGGA
CGGACGTATCCCGTCGAAATCCTCTACCGACCGCTGACCGGCAAAGACGAAGACGACGCA
GAAGTGGAGTTGACCGACGCGATTGTCGATGCGGCGGACGAATTAGCGCGACACGGCGAA
GGCGATATTTTGGTATTCCTGCCGGGCGAGCGCGAAATCCGCGAAACTGCCGAAGCCCTG
CGCAAATCCACGCTGCGCCGCAACGACGAAATCCTGCCCCTGTTCGCACGCCTGTCGCAC
GCCGAGCAGCACAAAATCTTCCACCCCTCAGGCGCGAAACGCCGCATCGTATTGGCAACC
AACGTCGCCGAAACCTCGCTTACCGTGCCGGGCATCAAATACGTCATCGACACCGGCCTC
GCGCGTGTTAAACGCTATTCCGCACGGGCGAAAGTGGAGCAGCTTCATATCGAAAAAATC
TCCCAAGCCGCCGCCCGCCAACGATCCGGCCGCTGCGGACGCGTCTCCGCAGGCGTGTGT
ATCCGACTGTTTTCAGAAGAAGATTTTAACAGCCGCCCCGAATTTACCGACCCCGAAATC
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GCGGCATTCCCGTTTTTAGAAATGCCCGATTCACGGTATATCAATGACGGTTTTCAGGTG
TTGTTGGAGTTGGGGGCGGTGGAGGCCGTCTGAAAACAGGCAGACATAAAAGAAAAATCCG
CGTAGAGTGATGTAAACTTACCCTTGCTTTAATAAGTAGAAAATGGTGGGTTTACGTCCC
CCCCTGCGGCTACTAAAAAAATATAAGAGTAAACAACCTTTTTGAAAGAAAAATGTATGG
ACGAAATTCAAATACCCAAAAAAGTGGAATTACAAACCAAACTAGAAAATGAAAAGATTG
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TAGCTGTTTATATTGAAGAACAATTAAAGGAAAAAGCACACAGAATTTCGGCTCATAGAG
CATTAAAATTAAACCCTAATGTCAATAAAATACCAGAAAAGAGTGCCAAAACATATCTAT
CTTATGGTCAGAACTGGGATGGAATCGATGTATCAAATAGAAAAAATTATAGATGGGATA
ATAACTCATATACTCATTTACTCAACGATTTTGATTGGTTATTACAATATTTATTCGCTC
AACAAAATAATATTGCGGTAGCAAATAATCAAAAGCTCAACCGTAATGAAAAAGTAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 79>:

gnm_79

GCCCCTGGCTTCTTAAAGGTTGTCCGCCCAAATGCTCAATGACAAGGACTTGCCGTTAAA
GCGGTAAGAAAACGTGTACTCATTCATAGGAGAAACCTTATGTATTTGAAATCTATAAA
GACGCAAAAGGCGAATACCGTTGGCGTTTGAAAGCAGCCAACCATGAAATCATCGCTCAG
GGCGAAGGCTACACCAGCAAGCAAAACTGTCAGCACGCAGTCGATTTGCTGAAAAGCACT
ACCGCCGCTACCCCTGTAAAAGAGGTATAAAATCCGCTTTCACCCTCAGCCCGCGCCCTA
CGCGGGCTTTTTTGTCAGTTTCCGACTTTGCGGGAGTGATTGCCCGCCCAGTCGCGCCAA
GCCTGATTTTGATTTTCCAACTCCGCCACATAGCCACCAAACTCAGCGGCGTGTTCCAAC
AGCGTGGCCGTCTTGCCGTCTTTCGGCGGATTCGGGCGTACCGGCGCGACCATCAATGCA
GCAGGCGGGGTCGGCATGACTGCCTTTTCGACAACCTTAATTTCCGTAGCCGAGGGCGCG
GTTGTAGAGCTGCAGGCCGTGAGAGCCAAAGCCGTCAATGCAACCGCCGCTTGCATTTTT
ACGGTCTTGAGTAAGGACATTTTCGATTTCCTTTTTATTTTCCGTTTTCAGACGGCTGAC
TTCCGCCTGTTTTTTCGCCAAAGCCATGCCGACAGCGTGCGCCTTGACTTCATATTTTTT
AGCTTCCGCGCGTGCCAGTTCCAGTTCGCGCGCATAGTTTTGAGCCGACAACAGCAGGGC
TTGCGCCTTGTCGCGCTCCATCTTGTCGATGACCGCCTGCTGCTTCGCAAATGCCGACTT
GTAGCCTTGATGGTGCGACACAGCCAAGCCCGTGCCGACAAGCGCGATAATGGCAATCGG
TTGCCAGTTATTCGCCAGCAGTTTCACGAGATTCATTCTCGACCTCCTGACGCTTCACGC
TGACAAATGAACGCGCCACCGCATAGCCGCCGACAATGCCCAAATACACCGCCCAAATTT
CCGCCGACGGATCGGGCAACATCACAAACTTAAACGTCCCAGCCGCGCAGGCAACGTTTG
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AGGCTCGGATGTTGTTTCAAAGAGCCTACCCGAACAGGGCTTGGCGTGATTTTGATTTCA
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ATCAAAGACTTTTTCATACCTTCGCCGCTCCCAATTCCATCGCAATCGCGTCCGCAATCG

CGCGGCAGATGCCCCATTTGGTCGTCTTAAACAAGGCCAAATCAGTGTCGTTGCTGATGA
AAAAAGGCTCAAACACAATGCCGCCTGCCTGCGCATAAGCCAGGCGCGAATGTTGCCCTG
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CTTTGCCCAGCACCTGACACCAGCGTTTATTTTCGGCGTGGACAAGGCTTCGATGCCTG
TCGCCGTTTTGTTCGCCGCCGCATTGGTGTGGAACTCAATCGCCACATCCGAGCCGCGAA
TCAGCTTGACCGCATCGCGCAGCGGCATATTGCCTTTGCCCGTGCCGTCGGTTTTAACGG
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CCGCCTCACGGTCGCTTCCGTTGACCGCACCCGGGTCGGTGTTGCTGTGTCCAGCGGTTA
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CCAACACTTCTTCCACTTCGGTGGCGGGTGGTAGGGCATGGTTTGCGAATCTTCTTTCT
GTGCCGTCATCTGTGCGAAGAAGGCGGGCATTTTGGCATCTTTGGCGTCGGTTTTGGTCA
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GGTTTGACCGCCTTTGCCGAATACGATGGCGTTGGATTTGACGTATTTGGCGACGTTCCA
GACGAACAGCAAATCGTTCCATTCCTGCTCGGTCGGTTGGCGTTTGGAGACGACTTTCAA
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AACCCGCACCCGAAGCGCAAGCAATCAGTAGCCGCATTTCGCCTTCATCCAAACCCAAGC
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CGCGCCGCATACCGGAAGCCTGTGCCACGCCTTCGCGGAACGAAGTGTACACGCCGTCCG
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CCTATCCGAACAGGCCGCGTACACGCTCCAAACCGCCGAAGTTGATACAGGCATCGGCGG
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TGCGGTATTCGCGCAACAAATCTGCCTTTGCCTGCGCGTCGATGATTCTGCCTTTCAGAC
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 80>:

gnm_80

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TTTAAACAAATAAAAACAGCCGTATCAAGGAGATTCCCCGATACGGCTGCTTGTTTCCGA
ACCTTAAAATCAATCAAACAAATCGCGCAGCTTGTCTAAAAACGATTTCTTGCGCGGTGT
TTGGTTTTCCAAGCCGGTAGAAATCCGCTCAAATTCTTCCAAAAGCTCTTTTTGACGGTC
GGTCAAATTGACAGGCGTTTCGACAACAATATGGCAGTACAAATCGCCGGTCGCGCTGCT
GCGTAAAGATTTGACACCCTTACCCTTCACGCGCATCCTCCTGCCGGTTTGGGTTTCTTT
GGGGACGGTGAGCTTGACCTTTCCGTCCAAGGTCGGCACTTCCAACTCCCCGCCCAAAGC
AGCCGTGGCAAAACTGATCGGCAGTTCGCAATGCAAGTCCAGACCGTCGCGTTGGAAAAT
CTTATGCGCCCGAATGCGGACGGTTACATACAAGTCGCCGGCAGGCGCACCGTGCATACC
CGGCCCGCCTTCGCCGCTCAAACGGATACGCTGCCCGTCATCGATACCGGCGGGAATATT

GACTTCCACCGTCTTGACCGCCTTATTCCGCCCCGCGCCACGGCATTTGACGCAAGGTTC
TTTAATGTGTTTGCCCGCACCGTGGCAGGTCGGACAAGTCTGCTGCATACGGAAAATCGC
CTGCTGGATGTGCACCGTACCCGAACCTTTGCAAGTCGGGCAGGTTTCCGGGGATGTCCC
CGGTTTCGCGCCACTGCCGTTACAGACATCACACGCTTCATAAGTCGGAATATTGATGCG
TTTCTTCACACCTTTTGCGGCTTCTTCAAGCGTGATTTCGATACCGACTTGAACGTCCTC
ACCCTGATAATCAGGCTGGGCGCGCCCCGAACCGCCTCCAAACATTTGGCTGAAAATATC
CCCAAAGTCAAAACCCTGCGCACCGCCAAATCCGCCAAACCCTCCGAAGCCCCCCTGTCC
GCCGCCTTCAAACGCCGCATGACCATACTGGTCGTACATAGCGCGCTTTTCCTTGTCGGA
CAAAGTTTCATACGCCTTTTGTACTTCTTTAAACTTCTCTTCCGCCTCTTTATTGTCAGG
ATTGCGGTCGGGATGGTATTTCATCGCCAATTTCCGGTAGGCTTTTTAATCTCATCATC
GGTAGCTGTTCTTGCCACACCCAGCGTCGCATAAAAATCTTGATTACTCATTTTTTCATC
TAATTCAAAATAAAATCACGGCTCAAAATAAGGGCAATTGCGCAAAACACAAGACAAACA
GACTGCCATAGCTTACAAACTGAAACGGAATACACTTTTCAGACAGCATAAACCGATGCC
GTCTGAAATCTTCAGGTATGCACGACACAAAAACTTAGATAGGCATAAAACCAACCGCCA
TGAAGTGTTTTTGTTATAAAAACGCCGCCCGAACGCATGTTCAGACGGCATTTGATGCGG
CTGCAGACTTCCCCCTATTTTATTTTTTATCCGCGGGCAGCACTGGTTTGGCTGGGCCTT
TTGGTGCGGGCGCGCCGACGGAAGCCTGATCCTTCAGCTTCGCCAGCACCGCAGGGCCTA
TGCCTGGCAGCGCCTCCAACTCCTGCTGCGAAGCCGCATTGATGTTTACCGCCGCAAGGG
AGAAGGCGCAGGAGAACAGCATACAGAACAGCACGAACATTTTCTTCATGGTTTTTCCTT
TAAGGGTTGCAAACAATAAACCGCATCTTGCGACGATAAAACGAGTCATTCTAAAATGAA
TATCCCAAAGTTTCAAGCCGTTCCTCCGCAAACCCGACCGGACACCGTACGGATGCCGTC
CCGCCATCACCGACATTTTTTCCGGGCAAAGCAAACATTTTTTCCGGGCAAAGCAAAAAC
CCCCGAATAATCGGGGGTTTTCTGAATGGGTGTTTGGCAGTGACCTACTTTCGCATGGAA
GAACCACACTATCATCGGCGCTGAGTCGTTTCACGGTCCTGTTCGGGATGGGAAGGCGTG
GGACCAACTCGCTATGGCCGCCAAACTTAAACTGTTACAAATCGGTAAAGCCTTAATCAA
TATATTCGGTAATGACTGAATCAGTCAGTAAGCTTTTATCTCTTGAAGTTCTTCAAATGA
TAGAGTCAAGCCTCACGAGCAATTAGTATGGGTTAGCTTCACGCGTTACCGCGCTTCCAC
ACCCCACCTATCAACGTCCTGGTCTCGAACGACTCTTTAGTGCGGTTAAACCGCAAGGGA
AGTCTCATCTTCAGGCGAGTTTCGCGCTTAGATGCTTTCAGCGCTTATCTCTTCCGAACT
TAGCTACCCGGCTATGCAACTGGCGTTACAACCGGTACACCAGAGGTTCGTCCACTCCGG
TCCTCTCGTACTAGGAGCAGCCCCCGTCAAACTTCCAACGCCCACTGCAGATAGGGACCA
AACTGTCTCACGACGTTTTAAACCCAGCTCACGTACCACTTTAAATGGCGAACAGCCATA
CCCTTGGGACCGACTACAGCCCCAGGATGTGATGAGCCGACATCGAGGTGCCAAACTCCG
CCGTCGATATGAACTCTTGGGCGGAATCAGCCTGTTATCCCCGGAGTACCTTTTATCCGT
TGAGCGATGGCCCTTCCATACAGAACCACCGGATCACTATGTCCTGCTTTCGCACCTGCT
CGACTTGTCGGTCTCGCAGTTAAGCTACCTTTTGCCATTGCACTATCAGTCCGATTTCCG
ACCGGACCTAGGTAACCTTCGAACTCCTCCGTTACGCTTTGGGAGGAGACCGCCCCAGTC
AAACTGCCTACCATGCACGGTCCCCGACCCGGATGACGGGTCTGGGTTAGAACCTCAAAG
ACACCAGGGTGGTATTTCAAGGACGGCTCCACAGAGACTGGCGTCTCTGCTTCTAAGCCT
CCCACCTATCCTACACAAGTGACTTCAAAGTCCAATGCAAAGCTACAGTAAAGGTTCACG
GGGTCTTTCCGTCTAGCAGCGGGTAGATTGCATCTTCACAACCACTTCAACTTCGCTGAG
TCTCAGGAGGAGACAGTGTGGCCATCGTTACGCCATTCGTGCGGGTCGGAACTTACCCGA
CAAGGAATTTCGCTACCTTAGGACCGTTATAGTTACGGCCGCCGTTTACTGGGGCTTCGA
TCCGATGCTCTCACATCTTCAATTAACCTTCCAGCACCGGGCAGGCGTCACACCCTATAC
GTCCACTTTCGTGTTAGCAGAGTGCTGTGTTTTTAATAAACAGTCGCAGCCACCTATTCT
CTGCGACCCTCCGGGGCTTACGGAGCAAGTCCTTAACCTTAGAGGGCATACCTTCTCCCG
AAGTTACGGTATCAATTTGCCGAGTTCCTTCTCCTGAGTTCTCTCAAGCGCCTTAGAATT
CTCATCCTGCCCACCTGTGTCGGTTTGCGGTACGGTTCGATTCAAACTGAAGCTTAGTGG
CTTTTCCTGGAAGCGTGGTATCGGTTGCTTCGTGTCCGTAGACACTCGTCGTCACTTCTC
GGTGTTAAGAAGACCCGGATTTGCCTAAGTCTTCCACCTACCGGCTTAAACAAGCTATTC
CAACAGCTTGCCAACCTAACCTTCTCCGTCCCCACATCGCATTTGAATCAAGTACAGGAA
TATTAACCTGTTTCCCATCGACTACGCATTTCTGCCTCGCCTTAGGGGCCGACTCACCCT
ACGCCGATGAACGTTGCGCAGGAAACCTTGGGCTTTCGGCGAGCGGGCTTTTCACCCGCT
TTATCGCTACTCATGTCAACATTCGCACTTCTGATACCTCCAGCACACTTTACAATGCAC
CTTCATCAGCCTACAGAACGCTCCCCTACCATGCCGGTAAACCGGCATCCGCAGCTTCGG
TTATAGATTTGAGCCCCGTTACATCTTCCGCGCAGGACGACTCGACCAGTGAGCTATTAC
GCTTTCTTTAAATGATGGCTGCTTCTAAGCCAACATCCTGGCTGTCTGGGCCTTCCCACT

TCGTTTACCACTTAATCTATCATTTGGGACCTTAGCTGGCGGTCTGGGTTGTTTCCCTCT
TGACAACGGACGTTAGCACCCGCTGTCTGTCTCCCGAGGAACCACTTGATGGTATTCTTA
GTTTGCCATGGGTTGGTAAGTTGCAATAACCCCCTAGCCATAACAGTGCTTTACCCCCAT
CAGTGTCTTGCTCGAGGCACTACCTAAATAGTTTTCGGGGAGAACCAGCTATCTCCGAGT
TTGTTTAGCCTTTCACCCCTATCCACAGCTCATCCCCGCATTTTGCAACATGCGTGGGTT
CGGTCCTCCAGTACCTGTTACGGCACCTTCAACCTGGCCATGGATAGATCACTCGGTTTC
GGGTCTACACCCAGCAACTCATCGCCCTATTAAGACTCGGTTTCCCTACGCCTCCCCTAT
TCGGTTAAGCTCGCTACTGAATGTAAGTCGTTGACCCATTATACAAAAGGTACGCAGTCA
CACCACTAGGGCGCTCCCACTGTTTGTATGCATCAGGTTTCAGGTTCTGTTTCACTCCCC
TCCCGGGGTTCTTTTCGCCTTTCCCTCACGGTACTGGTTCACTATCGGTCGATGATGAGT
ATTTAGCCTTGGAGGATGGTCCCCCCATATTCAGACAGGATTTCACGTGCCCCGCCCTAC
TTTTCGTACGCTTAGTACCGCTGTTGAGATTTCGAATACGGGACTGTCACCCACTATGGT
CAAGCTTCCCAGCTTGTTCTTCTATCTCGACAGTTATTACGTACAGGCTCCTCCGCGTTC
GCTCGCCACTACTTGCGGAATCTCGGTTGATTTCTTTTCCTCCGGGTACTTAGATGGTTC
AGTTCTCCGGGTTCGCTTCTCTAAGTCTATGTATTCAACTTAGGATACTGCACAGAATGC
AGTGGGTTTCCCCATTCGGACATCGCGGGATCATTGCTTTATTGCCAGCTCCCCCGCGCT
TTTCGCAGGCTTACACGTCCTTCGTCGCCTATCATCGCCAAGGCATCCACCTGATGCACT
TATTCACTTGACTCTATCATTTCAAGAACTTCTTTGACTTTGCCTAACATTCCGTTGACT
AGAACATCAGACTTGAATTTCCTACTTTGATAAAGCTTACTGCTTTGTTGTGTCTTAATC
CTGCCTTTTGTGTTTCAGGATTAAGTCGATACAATCATCACCCAAATACTGTGTTTGTTT
TCTTTTCTCTTGCGAGAGATTTTTATCCTTTGCAAAGAATAAAAAATCAAAACAAACGCT
TTGTCTTTGTTTGTTGATTTCGGCTTTCCAATTTGTTAAAGATCGATGCGTTCGATATTG
CTATCTACTGTGCAAATCAAATCGAGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 81>:

gnm_81

CATGCTGAACGTTTGGCTGACATAAAGTTAAATGAGTCAGTCCGCTATAATTGATGAAAC
GGGTTAAAAAAGTGTTGCCATCGCCTGTTCTTCTTGTCGGATACGCTTAAATAAGACCAG
CAAATAAATGGGCAGGCCAATCAATAAAACATACCACGCTTGACATAATAAGGCGATGCC
AATCAGTTCGGGTATGATGTTTAAAAAATAATTGGGGTGGCGGAATGTTTTAAACAACCA
CGAACGATTAATTTGATGATTTGGTAAAATATAGATTTTAACCGTCCAAATCTCCCCCAA
CTGCTTAATAATCAATGACAATATCACAAACGAAGCCATCACCGTCAGCGTACCAATCAA
GGATATGCCATTAAAAGCAGTGTCAGAAAGCCATACCCAAACAAAACACGCCAAATAATA
AAGCGTATGAACTGCCGCAAGCAGCGTGGAATTGGTTTTTCCGTATTGTTTCGCCCCTTT
GGCAATCAAGGCTTTTTCATGTTTAATAGAGACGGCTAAAAATAACAGTCTGATGATAAA
AAACAGGCTTAAAATGCTTAAAATCATTGTCATTGATGTTTTTCCATTGAAATTGAAATA
AATATAAATCGGATTAATGGTATTTTTAATTAATGATGTTTCAGACCATCATGCTCTATA
AACAATTCCCATTAAGTCCGCGCCGCAACCTGCTATAATAAGTCTGCAATCGGCGCAAAT
CAATGCTTTGCGTTTATTGCCATCCCAAAATAATTGATGCTGCCTTAATTATAATACCAA
GATAAGTTTTTTTATTCAATAAAATACAAAGGGAAGCGTTCAGCCCATTGCAAACAGATG
CAATCCACCGATTATTTAAAAAACGGCAAAGCCTTGCCCCCCTTGCGGCAAGCCTGCAAT
GCCTTTAATGTCCGCAGGCGCAAGCGTCGCCGTGGTGCCCGCAACCCTGTGCCGTTTCGA
GCCATTCGTCGTCATCGCCGTCAAACTCTTCCACTTCGTCAAACTCGCCGCGTTCCACCA
TGACGCACAACTCTTCAAGGCTTTCCGCGCCTTCCACCCAAAAACAGGGAATGCCCGGCG
GCATATCGGGCGCAAGCAGTGCCGCTACGCCTTCATGCCACGCAATCCAATAGCCGTTGT
CCGTACGGACGAATTGTGCGTTTTCGTTGACCGACTCGCCTTCCGTACCTTCCAGCATAC
GTTCCGCAATGTCCGGTTGAAAAGATAAAATCTGCATAAGTGTTCCTTTATATGATGGTT
TTCCGTCAAAACAAGGTGTTATAGTGGATTAAATTTAAACCAGTACGGCGTTGCCTCGCC
TTGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTAAAGTTAATCC
ACTATATTTTAAAACATCGCGCCCGCTTGAGAAACTGCCAACCGCTTTATAACAAATTCG
TCTTTGCACCAAACTTTCCATTCTTTCCGTTTTTCGGACGGCATCGTTAAAGTAGTCCTT
CCTTTTCCTTATTTTCAGCATTGTTTTATGTTAGCGCTCAAAACGCCCGGCGTACTGCCC
GGCTTCAAACTCAGCCTTGGTCTGACCGTATTGTGCCTGTCGCTGCTTGTGGTCTTGCCG

TTTGCGATGATGGCGGCGAAGGCGGCGGAAATCGGCTGGGGCGGCTTTTGGAACACGATT
GCCGAGCCGAACGTGTTGGCGGCGGTATGGCTGAGCTTGCGGATGTCGTTTTATGCGATG
CTGACCAATGTCGTGTTCGGCACGCTGGTGGCGTGGGTATTGGTGCGTTATGAATTCCCG
GGCAAGGGTCTGGCGAACGCGCTGGTCGATTTGCCGTTTGCGCTGCCGACGGCGGTTACG
GGTATCGCGTTGGCAACCCTGTATGCGCCCAACGGTTGGATAGGCCGTTTTTTCGAGCCT
TTGGGCATCAAAATCGCGTTTACACCCGTCGGCATTTGGATTGCGCTGGTCGTCGTCAGC
CTGCCCTTTATCGTCCGCGCCGTGCAGCCGGTATTGGAAGAATTGTCGGGCGAATATGAG
GAAGCGGCGGCAACTTTGGGCGCAAGCCGTTGGACTACGTTTCGCCGTGTCCTCTTGCCT
GAAATCACACCGGCACTCTTGACCGGCGCGGGAATGATGTTTGCGCGGGCAACGGGGGAA
TACGGTTCGGTGATTTTTATCGCGGGCAACATTCCGATGGTTTCTGAAATCCTGCCGCTG
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AAACATTTTAAAACCAACCAGAGAACACCACCGCCATGAAACCCTATTCCGCCAATCCCA
ACCTGACCGAACCGCGCCGGCTGCGCGTGTTGCTGATTGCCGCCGCGCTGGGCTTTCTGC
TGCTGATGCTGGTCGTGCCGCTCGTCGCCGTGTTTTACGAAGCCTTAAAAGGCGGTTGGG
ATTTGTACCTGAAATCCTTAAACGATCCCGAAGCGTGGTCTGCCATCAAATTGACGCTGA
TTACCGCGCTGATTGTCGTTCCCGTCAATGCCGTATTGGGTGTGGCGATGGCGTGGCTGC
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CCGTATCGCCCGTGGTGGCCGGTTTGATGTTCGTCTTATTGTTCGGCGCGCATACGGCAT
TGGGTGGCTGGCTCGAAGCGCAAGGCATACAGATTATCTTCGCCATCCCCGGTATTGTTT
TGGCGACGCTGTTCGTTACCTTCCCCTTTGTCGCACGCGAAATCATCCCGCTGATGCAGG
CACAGGGCGACAGCGAAGAACAGGCGGCATTGATACTCGGCGCAAGCGGCTGGCAGATGT
TTTGGCGCGTTACCCTGCCCAACATCAAATGGGCGTTACTCTACGGCATCATCCTCACCA
ACGCCCGCGCGATGGGCGAGTTCGGCGCGGTCAGCGTGGTATCGGGACACATACGCGGCG
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CATTCGCCCTCTCCGGCGTATTGGCACTTTTGGCACTGGCGACGCTGGCGGTGCAGAACA
TCATTACCAAATTACAAGACAAAAAACTCGCCGCCGCCGAAAGGAATGCAATATGAGTAT
CACCATCCAAAACTTAAACAAACACTTCGGCAATTTTCACGCGCTGAAAAACATCAACCT
CAACGTCCCCACCGGCAAACTCGTTTCCCTGCTCGGCCCGTCCGGCTGCGGCAAAACCAC
ACTTTTACGCATTATCGCCGGACTGGAAAACGCCGACGGCGGCAATATCCTGTTTGACGG
GCAAGACGTAACCGCCAAACATGTGCGCGAGCGCAAAGTCGGCTTCGTGTTCCAACACTA
CGCCCTTTTCCGCCATATGAACGTGTTTGACAACGTCGCTTTCGGTTTGACCGTATTGCC
CAAGTCCGAACGCCCGTCCAAAGGACAAATCCGCGCCAAAGTCGAAGAATTACTCAAGCT
CGTGCAGCTCTCTCATTTGGCAAAATCCTATCCGCACCAACTCTCCGGCGGGCAACGCCA
GCGCATCGCCCTCGCCCGCGCGCTTGCGGTCGAACCCAAACTCTTGCTTTTGGACGAACC
CTTCGGCGCGTTGGATGCCAAAGTACGCAAAGAATTACGCACCTGGCTGCGCGACATCCA
TCACAACCTGGGTGTAACCAGCATTCTGGTTACGCACGACCAAGAAGAAGCCCTCGAAGT
TTCCGACGAAATCGTCGTGATGAACCACGGCAAAATCGAACAAACCGGCAGCGCCGAAGC
TATTTACCGCAAACCCGAAAATGCCTTCGTTACCGAGTTCCTCGGCGAAACCGACGCTTT
TGAAGGACGCATCGAAAAAGGCTTCTGGCATTACAACGGCTTCGCGTGGAAATTGGACGC
GCAATACAAATGGCAGGAACAAACCGCCACCGGCTATATCCGCCCGCACGAATGGCAGAT
CGCCGCCGAACACGAAACACCGATGATTTGTGCCGAAATCGAAAAAATCCACGCCGTCGG
CGCATTGACGCATATTCTGGTAAAACACGACAAACAGGACGTACATATCACGCTGGCAGG
CAGCGATGCCGCGCGTTACCCAATCGCCGAAGGCAAAGAATTGAAGCTGATTCCGAAACA
GGTTTATGTCTTCTCTCAAAACGAACTGATTGAATATTCGATTTAACCATGAAAGCGCAA
TGCCGTCTGAAAGGCTTTCAGACGGCATTGTGCTTTCAAGCGTCAGGCAAGAAACAGCTT
GTACGCGGCATTTTGCGTTTCCTCGTGATAGCTGTATCCCAGACTTTCCAAGAAACCGTC
AAATGCGGCGGCATCGTGCGGCGGCACATCGATACCGACCAAAATCCGCCCGTAATCCGC
ACCGTGGTTGCGGTAATGGAAAAGCGTAATATTCCACCCTCCCTGCATATGGTTCAAAAA
GCGTGCCAATGCCCCCGGACGCTCCGGAAACTCAAAACTGACCAAACGCTCGTTTTCTAC
TTTGTCCGTCCGCCCTCCGACCATATAGCGGATATGGATTTTGGCAATCTCATTGTTGGT
CAAATCGACATTGGGCAATCCCGCCTCATCCAACCGGCTGCCGATAACCGCCAAATCCTG
CGGGCCTGCCGCTTGAAGTCCGACAAAGATATGCGCTTTTTCATCGTCTCCGTAGCGGTA

GTTGAACTCGGTAATATTCCTATTTCCCAATATATTGACAAACTTAAGGAAGCTGCCGCG
TTCTTCAGGGATGGTAACGGCAAAAATACCTTCGTTGCCCTCGCCCAATTCGCTCCGTTC
CGAAACGTGGCGCAAACGGTGAAAATTCATATTCGCACCGCTGGTAACGGCAATCAGGGT
TTGGTTTTCCGCGCCTTCTCGGGCGATATAGGCTTTCAGACCCGCCAACGCCAACGCGCC
CGCCGGCTCGGTAATGCTGCGCGTGTCATCGAAAATATCCTTGACCGCGCCGCAAACCGC
ATCGGTATCGACTGTAATGATTTCATCCAAAAGTTCTTTGCAGAGGCGGAAGGTTTCGTT
TCCGACGACTTTGACCGCAGTGCCGTCTGAAAACAGCCCGACATCTTTCAAATGGACGAT
TTCACCCGCTTCGACCGACTGCTTCATACAGCAGGAATCGTTGGTCTGAACGCCGATAAC
TTTGATTTCGGGACGGACCTGCTTGATAAATGCCGCCACGCCCGCCGCCAAACCGCCACC
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CACCGTCCCCTGTCCCGCAATCACATCAGGATCATCAAACGGCGCGATATAGGTTAACCC
TTCTTTTTCCGCCAACTCCATCGCATAATCGTAGGCATCGTTGTATGAAACGCCCCGCAA
AACCACCTCGCCGCCATGGCTTTTAACCGCATCCACTTTGATTTTCGGCGTAGTCTCCGG
CATAACGATAACGGCACGGCAGCCCAAACGCTGTGCGGACAATGCCACGCCTTGAGCATG
ATTGCCCGCGCTTGGCGCAATCACGCCGCAAGCGAGCGCATCTTTCGGCAACTTGGACAT
TTTGTTGTACGCGCCGCGTATTTTGAACGAAAAAACCGGCTGCAAATCTTCGCGTTTCAA
AAGGATGTTGTTTTTCAAACGTACAGAAAGGCTGCGTGCCGGTTCCAAAGGCGTTTCGAC
CGCCACATCATAGACAGATGCCGTCAGGATGCGGATGAGGTAATCGGAATAAGGAAGGGG
CGTGTTCATAATTCAATATGGGATAATCGGTTTATTAAAATCGCAAAACCCAAAACCATA
CGCCCAAGACGGCGCGAAATCAAGAAAAATCCGCCCGATCAGACACCCTAAGCGTATAAT
CGGCAGACTGAAACACGCACACAATTAGAATATTTCATGACAGCACATAAAATCCTGCCC
GTCCTGCTTTCCATCATCTTAGGCGTTTCTCACGCAACGGCTGCATCGCCCGCGCCCAAC
AGACCGACGGTACACGCCGCCCCCACGTTCCAAACACCCGAAACCCTCACAGCGGCACAC
ATCGTTATCGACCTTCAAAGCAAACAGATTTTATCCGCCAAAAACATCAATACCCCTGTT
GAACCGGCGGCACTAACCCAACTGATGACCGCATATCTGGTTTTCAAAAACATGAAATCG
GGCAATATCCAATCTGAAGAAAACTTAAAAATACCCGAATCCGCATGGGCTTCAGAAGGA
AGCAGAATGTTTGTACGTCCCGGCGATACGGTCAGCACCGACAAACTCTTAAAAGGCATG
ATTGCACTATCCGCAAACGATGCCGCCCTAACCCTTGCCGGCCGGCTGGGCAACGGCTCG
ATTGAAAATTTTGTGCAACAAATGAACAAAGAAGCCCGACGCTTGGGCATGAAGAACACT
GTATTCAAAAACCCGACAGGCTTGAGTAGAGAAGGACAGGTTTCCACCGCCAAAGACCTC
GCCCTGCTGTCTGAAGCATTGATGCGCGACTTTCCGGAATATTACCCGCTGTTTTCCATC
AAATCTTTCAAATTCAAAAATATAGAACAAAACAACCGCAATATCCTTTTATATAGGGAC
AACAATGTAAACGGTCTGAAAGCCGGACACACAGAAAGCGGCGGCTACAACCTTGCCGTG
TCATACTCCGGCAACGGCAGGCACATCCTTGTCATCACATTGGGTTCGGAATCGGCGGAA
ACACGCGCATCAGACAACAGCAAGCTGCTGAACTGGGCATTGCAGGCCTTCGATACGCCC
AAAATATATCCGAAAGGCAAAACCGTTGCCCAAATCCAAATTTCCGGAGGCAGCAAAAAA
ACCGTCCGCGCAGGCTTCCTCAAAGAAGCCTACATCACTCTGCCACATAAGGAAGCGAAA
ATGGCAGAACAAATTCTAGAAACCATACAGCCGATTCCCGCCCCAGTAAAAAAAGGGCAA
ATTTTAGGAAAAATCAAAATCAGACAAAACGGATACACCATTGCCGAAAAAGAAATCGTC
GCACTGGAAAATGTAAAAAAAAGAAGCCGGTGGCAAAGGCTTTGGGCGTGTCTGACAGGG
CAGTAATCTGCCGTTTCAAATATCCCGTTTTTCCAACAAATAAAGAAATGCCGTCTGAAA
CACGGTTCAGACGGCATAAAACAACAGGGCGGTACGTATTGCATACGCGCCGCCCTGCTG
CTGAAATCAATTAGCGTTTCTTACCGGTAACGGTAGCAACAGCCAGATTTTCGTTACGTT
TCAGGGAAACGCTTTCTACACCTTCAGGCAGTTTGATGTCTGACAAGTGCAGAATGTCGC
CGGCAACCACTTCAGCACAATCCAAATCCAAGAAAGCAGGGATGTTGGCAGGCAAAGCAA
CTACTTCAACAGAAGTGTTTAACAGAGATACGCGGCCGCCTTGCAGTTTGACCGCTTGGG
AATTTTCAGCGTTAACGATGTGCAGGGGAACACGGATGCGTACAAGTTGATCGGCTTTCA
CAGCTTGGAAGTCGATGTGTTGAACTTCGCGGCGGAACGGGTGCATTTGGAAATCACGGA
CGATAACGTCTTTGGTTTCACCGTTCAGAGACAACTTAATCAACGCAGTATGGAAAGATT
CTTTTTCCAATGCGTAGAATACGGTTTTGTGATCCACAGCGATTGCAACAGGCTCTTGAC
CTTCACCGTACAGAATGCCGGGGATTTGGCCTTCGCGACGCAGGCGGCGGCTCGCACCAG
TGCCTTGTGCTTCACGAACAGAGGCTTGAATTTCATAAGTCATGTTAAATACTCCAAGTT
AGGTAAAATCGCCGTCATCGGCCGCGACCAGCTTAAGACGGCTTCGGGCTTATGGCAGCA
ACATGCTGCCTGTCATCACTTCTTCATTGAAAAGATATGAGACGGATTCTTCATTGCTAA
TGCGGCGGACGGTTTCGGCCAACAGACCGGCAATCGTTACCTGACGGATACGGTCGCAGT
TTTTAGCCGCTTCAGACAAAGGAATGGTATCGGTTACGACCACCTGGTCGATTTCGGATG
AGGCGATACGGCTGACCGCCTCTCCGGAGAATACGGCGTGGCTGGCATAGGCTAGAACAC

GTTCAGCCCCCCGCTCTTTCAGGGCGACGGCGGCTTTGCACAGCGTATTTGCAGTGTCAA
TCATATCGTCCACAATCAGACAGGTTCTACCTTGAATATCGCCGATGATGTTCATGACTT
CCGCCACATTGGCTTTCGGGCGGCGTTTGTCGATGATTGCCAAGTCGGCATTCAGGGATT
TTGCCACGGCGCGGGCGCGGACGACACCGCCGATGTCCGGGCTGACGACGGTCAGATTTT
CAATCCGCTGTTGTTTGATGTCGTTCAACAGAATCGGGGTGGCATAAATATTGTCCACCG
GAATATCGAAGAAACCTTGAATCTGGTCGGCATGCAAATCGACAGTCAAAACACGGTCGA
TCCCTGCCGAATACAGCATATTTGCCACCAGTTTGGCAGAAATCGGAACGCGGACGGAAC
GCGGACGGCGGTCTTGGCGCGCATAGCCGAAATACGGAATGGCTGTGGTAATACGACCTG
CCGAAGCACGCTTCAGTGCATCCGCCATCGTCAGGATTTCCATCAGGTTGTCATTGGTCG
GCGCACAGGTCGGCTGAAGGATGAAAACATCGCGCCCGCGTACGTTTTCCAACAGTTCGA
CGGCAACTTCGCCGTCTGAAAACTTGGATACGGAAGCATTGCCCAAAGAAATGTCCAAAT
GCCTGACAACACGTTGTGCCAATTCGGATTGGCATTGCCTGTAAATACCATCAAACTGT
CGTACGCAGCCATATTCTCACCTGATTTTATGTTTAACTTCCGCTCAGAAAACACAATGC
TTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 82>:

GNMCB20F gnm_82

GCAGGTCGACTCTAGAGGATCCCCAGCAAATGGGGCAAGGTTCAAATAGGAACACCATCT
GCAGATTTTGGCATTATCACTTTAGATAGTGGCGATGGATATGCCGTTTCATGCCATCAT
CCCGAAATTTTTACGCTAATCCTAAAAGAAGAAGGATTGGATGAAGATTTCAAAATCGGT
ATCGAAGGGCGCTCTCATCGCGATTGTGATGCTGAAGAACCCAAAGTTATCCATATCGAA
GATAAACGCACCATTGAAACCCCATGAAAACCTGCTGCCGTTTAATCATCTACTGATGAT
TACTTAGGCAAATGTGCCCGTCCCTCCCTTTTCAGACGACCTTTCATTGCGGAAACCGCC
GCAAAGGTTGTCTGAAAACCGTTTTCCATCCCCGTTTTACAAACAAACCGAAAGCCCCAC
ATGATCTCTTTGAAAAACGACACTTTCCTCCGCGCCCTGCTCAAACAACCTGTCGAATAC
ACGCCGATTTGGATGATGCGCCAGGCGGGGCGTTATCTGCCCGAATACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 83>:

gnm_83

CGGCGAAGCGCGCCGCGAAATCGCCGACTTTTTAATTGATGCCGCCGCCTTCAGGCGAAA
AATGGGTCTTGAACGGAAAGCCGGTAATGTTGTCCTATCCGAAATGTTCCAATTTTGAGC
AGATCAAACAGGGTTCTTATGTCGGTTCGACGGTTTTAATTCTGTTCGTAGTCATTTACG
GCTTCAGGCTTTTGATTAATTTTTTAAAAGACATGGGCAAGGTTGGGATTGATTGATGGT
TATTGATTTTTGGTTTCTTCTCGGTTTCTTCTTGGCTTTGTCTGTCGCTTTGATATTTAA
ATGACGTGTTTTAAAATCAGGCTTTCAAAACAACCTTTGAAAGGCAGAACAATGAACAAA
CCGTTTATCACGCAGGCGCAGTTGGCACTTTATAAATATCAGCCGTCAAGCAAGTATTAT
GGTAAAACAATGGCATATACTTTCGCTAGTGAGCTTTTGGATTATTCAAAAGTTAATAAA
TTTATAATTCATGAAGAAATCCAATGTTTTTTAAATAGAAGGATTTCTAATAATATTTGG
AAAATTTATTTTTCTGATGAGTCTGTTGCGTATATAAAAATTTTAGAATTACAGGATGAT
TATAGTCGTGGAATTGAAATTAAAACGTTTGATTTTAATCCTAATGTTGGGGATGTTTTC
GGTTAATTCTTATGCTGAACGTTTTAAGTATCCTATTGGAAATTCAGATGTTAGATTGGA
TATTGATCATAAAAAATCTGTAGTTACCGATTTTCGTGTTGATGGTCAGCGTTTTTCAGG
TCGAATTATCGAACCTTCAATAATAGAACACGTGCCAACAGGTGCACGCTCTCTTGAAAA
AGTCCCCGTTAAATTTACCGCATCAGTTTCCCGCGCCGCCGTCTTGTCAGGAGTCGGCAA
ACTTGCCCGCTTAGGCGCGAAATTAAGCACAAGGGCAGTTCCTTATGTCGGAACAGCCCT
TTTAGCCCATGACGTATACGAAACTTTCAAAGAAGACATACAGGCACAAGGCTACCAATA
CGACCCCGAAACCGACAAATTTGTAAAAGGCTACGAATATAGTAATTGCCTTTGGTACGA
AGACAAAAGACGTATTAATAGAACCTATGGCTGCTACGGCGTTGACAGTTCGATTATGCG
CCTTATGTCCGATGACAGCAGATTCCCCGAAGTCAAAGAATTGATGGAAAGCCAAATGTA
TAGGCTGGCACGTCCGTTTTGGAATTGGCATAAAGAAGAACTGAATAAATTAAGTTCTTT

GGATTGGAATAATTTTGTTTTAAATCGTTGCACATTTAATTGGAATGGCGGAGATTGTTT
GGTCAATAAAGGTGATGATTTCAGAAATGGGGCTGATTTTTCCCTTATTCGCAATTCAAA
ATACAAAGAAGAAATGGATGCCAAAAAGCTGGAAGAGATTTTATCGTTGAAAGTCGATGC
CAATCCCGACAAATACATAAAGGCAACCGGTTATCCCGGTTATTCCGAAAAAGTAGAAGT
CGCACCCGGAACAAAAGTGAATATGGGTCCCGTCACGGACAGGAACGGGAATCCCGTTCA
GGTTGTCGCAACATTCGGCAGGGATTCGCAAGGCAACACCACGGTGGATGTTCAAGTAAT
CCCGCGTCCCGACTTGACCCCCGGAAGCGCGGAAGCACCGAACGCACAGCCGCTGCCCGA
AGTATCGCCCGCCGAAAACCCCGCAAACAACCCGAACCCCAATGAGAACCCCGGCACGAG
CCCCAATCCCGAACCCGACCCCGATTTGAATCCCGATGCAAATCCCGATACGGACGGACA
GCCCGGCACAAGACCCGATTCCCCCGCCGTTCCGGGACGCACAAACGGCAGGGACGGCAA
AGACGGAAAGGACGGCAAAGATGGCGGCCTTTTGTGCAAATTCTTCCCCGACATTCTCGC
TTGCGACAGGCTGCCCGAGTCCAATCCGGCAGAAGATTTAAATCTGCCGTCTGAAACCGT
CAATGTAGAGTTTCAGAAATCAGGAATCTTTCAAGATTCCGCACAGTGTCCCGCACCTGT
CACTTTCACAGTGACTGTGCTTGATTCAAGCAGGCAGTTCGCGTTCAGCTTTGAGAACGC
ATGTACCATAGCCGAACGGCTAAGGTACATGCTTCTCGCCCTTGCTTGGGCGGTTGCCGC
CTTTTTTTGTATCCGCACAGTATCTCGTGAAGTCTAGCAGGCGCAGCACCGCCGGGCTTC
AGTAACTTGTACCAAGGCAGGGGGAGGACGTCCAGAAAGATTTGTAAAGACGGCTTTATC
GTCTTTATAAATCTTTTTGGATACCCCTTGCCGCCCCGCCAAAAGAACACATTCTGCCGC
AAGGGCAGGTGGTAAGGCGCGCGCCTTTTGCGCCGTCCCCATGCCCCCGCGGCGTCGCAA
GTGAGACTAGGGGGTGTGGGGGACTAGTCCCCCGCAAAGCGTTCAGCTTCGGAAACTTTG
GCCGAAAGGCAGGCGAAGCAGCGCACTTTGCGACGAATGTCGCAAATAGCCGAGAAGCGC
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GGCGCAAAATCTTTCAGATTAAGAAACATTTGTTTAATGAGGCAACCGTGCCTTTTAAGA
AAGGGATAGCAAATGAAATTGTTGGCCGCATTGATTCCGCTTTTGATGAGCGTGGCAGGC
CGTATATTGACTGCATTAGGCTTGATGGCGGTAACCTATTCAGGGGTGGATAGATTGGTA
GCCCATTTTCAGCAGGCGATAACCAATAGCATAACGGGCGCGCCTCAAGCGATGTTGCAG
CTTTTTTATATAAGCGGCGGTGGAACCGTTCTTAATATCCTGTTTGGCGCGATCGCCTTT
ATTCTGTCATTCAAACAAATGACAAAACTAGCAACCTCAATCGGGAAGAAAAAAATAAATG
GCAGAGATCTGTTTGATAACCGGCACGCCCGGTTCAGGGAAAACATTAAAAATGGTTTCC
ATGATGGCGAATGATGAAATGTTTAAGCCTGATGAAAACGGCATACGCCGTAAAGTATTT
ACGAACATAAAAGGCTTGAAAATACCGCACACCTACATAGAAACGGACGCAAAAAAGCTG
CCGAAATCGACAGATGAGCAGCTTTCGGCGCATGATATGTACGAATGGATAAAGAAGCCC
GAAAATATCGGGTCTATTGTCATTGTAGATGAAGCTCAAGACGTATGGCCGGCACGCTCG
GCAGGTTCAAAAATCCCTGAAAATGTCCAATGGCTGAATACGCACAGACATCAGGGCATT
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CGGAAACATTACCACATCGCTTCAAACAAGATGGGTATGCGTACGCTTTTAGAATGGAAA
ATATGCGCGGACGATCCCGTAAAAATGGCATCAAGCGCATTCTCCAGTATCTATACACTG
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CGGTCAAAGTGGTTTTACACTCTGCCAGTAATAGTATTGCTGATTCCCGTGTTTGTCGGC
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TCGGCGGCAACAGAACAGCAGGCAGTACTTCCGGATAAAACAGAAGGCGAGCCGGTAAAT
AACGGCAACCTTACCGCAGATATGTTTGTTCCGACATTGTCCGAAAAACCCGAAAGCAAG
CCGATTTATAACGGTGTAAGGCAGGTAAGAACCTTTGAATATATAGCAGGCTGTATAGAA
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GAGTTGATGTGCAAGGACTATGTAAAAAACGGCTTGCCGTTTAACCCATACAAAGAAGAA
AGCCAAGGGCAGGAAGTTCAGCAAAGCGCGCAGCAACATTCGGACAGGGCGCAAGTTGCC
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ATGCCGGCTGCCTTTATCCATCCTCGAAATTGAATATCATCCTAGCCGTATCAAGGCTGT
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TGGATTAAAACAGTTTAGATTGTGGATAAAGGGAAACAGAATCAGAAAAGTCTATATCGG
CATGGAGGCAACAGGCATCTATTACGAAAAGGCAGCAGATATGCTTTCTTCCTACTATAC
TGTTTACGTTATTAATCCCTTAAAAATCAAGGACTACGGAAAAAGCAGGTTTAACCGTAC
CAAAACCGACAAAGCAGATTCAAACCTGATAGCAGACTACATAAAAAGGCATCAAGATAC

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TCAATTACATCAACATCAGAAGCAAATTAAAAACCGTCTTCATAGCACTGAAGAAGACTT
CATAAGGAACATACATCAAGACTTGATAGATACCATACAGGACAAGATGGAACAGGTAAA
AATAGCCATATCCGAACAAATCAAAAAACAAACGGACAATAACCATTACCGCAATCTTCA
AACCATCCCGAGCATAGGCAAAGACACCGCATCAGTTCTTTATGCGCAACTGACAGAAAA
ACATTTTAAAACCGCAAACCAGTTTGTATCCTATGCCGGATTAAATCCCGCCATCATACA
ATCAGGGACAAGCGTAAGAGGTCGGGGCAGATTGAGCCGATACGGAAACAGACGATTAAA
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ACTGGCGAAGCTCGCCTATTACATTGTTAAAACCGGCCAGCCTTACGATGCGGAAAGACA
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ATAGTGGATTAACAAAAACCAGTACGGCAAGGCGAGGCAACGCCGTACTGGTTTTTGTTA
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TATTTGGATTGCAGGCTGGTACGGATGCCGTAGCGGAGGAAGGCGGCATAGTTGGACGAG
TCGCTCGACCCGATAGACGCGCCGCTGCAAAACATTTGCGCGTTGGCATTGCCGGAAGAA
AGCAGGCTGCTGTTGAAATCTTCCGTCCATTCCCAAATCAGCCCGTGCATATCATAAACG
CCCCAGTAGTTCGGGCGGCCTTTGCCGACATCGTGCAGGCCTTTCCGTCCGCCGTCGGCA
TACCAATCGAGAATAGTGCGGTTGTAGCCGGGTTCGTTTGAGCCGTTTTTCTGCGTGGCG
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CAATAGGCGTTGGCGGCAAACCAGGAAACATTGGTTACCGGTTGTTTTAATTCGCCCGCC
TTCGGCGCATAGCTGCGGCTGCCGTTTTTCATCCAATGCTTCAGGTAAGCGGGTTCTGCC
TGTTTGGAACCGATCCTGCCTTTTTGCCATTGGGGGTGGCTGTTGACAAATTCGGCAAAC
TCGGCATTGGTAACGGGATATTTATCCAGTTTGAACGGTTTGACTTTAATCAGGCCGGTA
TCTTTTTTCAGATAAAGCGGGCGGTAGCTGCCGCCTTCGATTTGAACCATTTCGGCAGCC
GCCGCTTGAGTGCCGGCGAGTGCCGCGCCGAGGAAAAATAACCGGACATACTTCATAAAG
CCTCCTGACAGGCGGTTAAAATCAATCTTCCGAAAGGAAAGATTGGTTGTTAAAAAACCA
CCGCCGTGCGTAATGAAGTACAGCGGCAGTGGTTCGTCCCGCTAATGACGGGTATCCAAT
TTAATAAACGCTTTTTTCGGATGCAGAGGCTGCCGGGGCAGAAGCTGCGGGAGCGGAAGC
AGCAGGAGCTGCACCGTTACCGGCGTAAGCGGTATCACTCAATTTTTGAGTCATGATTTC
AGGGTTTTCTGCACCTTCTACTTTCAATTGACCCAGTGCGCCTTTGTTGAATGCGCGGAA
GATAGAGTGGTCAACCAAAGTGTAGCTGCCCGGGATGTCGACTTTGAATTCGACGATGGC
AGAGCCGCCGGCAGGAACGATGGTGCTTTGTACGTTTTCGTTAATCAGTTTGCCGCCTTC
AACATAAACTTTGTCGAAGATTTCGCCGATGACGTGGAAGGAAGATACCAAGTTCGGACC
GCCGTTACCAACGTACATACGTACAGTTTCGCCTGCTTTGGCTTTCAGCGCGTTATCGCC
GGCGATAGCACCTACGTGACCGTTGAATACGACGTATTCAGGCTGTTCGGCAACGGCTTT
GTCCATATCGAACGGTTGCAGACCTTGCGCGCCTTTTTTGCCTTTGGTGTAGAAGTCGCC
TTGGACGATGTAGAACTCTTTATCCACTTTCGGCAGGCCTTCTTTAGGCTCGACCAAAAT
CAGACCGTACATACCGTTGGCGATGTGCATACCGACCGGTGCGACGGCGCAGTGGTAGAT
GTACAGACCCGGTTGCAGGGCTTTGAAGCTGAATGTGGAAGTACGGCCCGGAGCGGTAAA
GGTTGCGGCCGCGCCGCCGCCCTGGCCGGTAGCCGCGTGGAAGTCGACGTTGTGCGGAAC
GGTAGAAGAAGGATTGTTGGAAAATTCCACTTCAACCGTATCGCCTTCGCGTACGCGGAT
CATACGGCCCGGAACGTCGCCGTCAAATGTCCAGTAGCGGTATTCCACACCGTCTTCCAT
GGTCATGGTTTTTTCGACGGTTTCCATTTTTACGCGGACTTTGGCGGGGTAGTCGCGGTC
GATTGCAGGAGGCACTTCGGGAGCGTGGGTGGTAACCGCATCGATAACGGGCAGTTCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 84>:

gnm_84

GTCGACTCTAGAGGATCCCCTGCGGATTTATTACGATATTACCGTATTCAGGCCGCACCG
ATGCCGCCTGCCCCCCGAAAAACTTTGGAGAATCCAAAAAATGTTTCATTTTGCATTTCC
GGCACAAACTGCCCTGCGCCAAGCGATAACCGATGCCTACCGCCGTAATGAAATCGAAGC
CGTACAGGATATGTTGCAACGTGCACAGATGAGCGACGAAGAGCGCAACGCCGCCTCCGA
GCTTGCCCGCCGTTTGGTTACCCAAGTCCGCGCCGGCCGCACCAAAGCCGGCGGCGTGGA
TGCGCTGATGCACGAGTTTTCACTCTCCAGCGAAGAAGGCATCGCGCTGATGTGTCTGGC
AGAAGCCCTGCTGCGTATCCCCGACAACGCCACGCGCGACCGCCTGATTGCCGACAAGAT
TTCAGACGGCAACTGGAAAAGCCATTTGAACAACAGCCCTTCCCTCTTCGTCAATGCTGC
CGCCTGGGGCCTGCTGATTACCGGCAAACTGACCGCCACAAACGACAAACAAATGAGTTC
CGCACTCAGCCGCCTGATCAGCAAAGGCGGCGCACCGCTCATCCGCCAAGGCGTAAATTA
CGCCATGCGGCTTCTGGGCAAACAGTTCGTAACCGGACAGACCATTGAAGAAGCCCTGCA
AAACGGCAAAGAACGCGAAAAAATGGGCTACCGCTTCTCCTTCGATATGTTGGGCGAAGC
CGCCTACACCCAAGCCGATGCCGACCGCTACTACCGCGACTATGTCGAAGCCATCCACGC
CATCGGCAAAGATGCGGCAGGACAAGGCGTTTACGAAGGTAACGGTATTTCCGTCAAACT
TTCCGCCATCCATCCGCGCTACTCGCGCACCCAACACGGCCGCGTGATGGGCGAACTGTT
GCCGCGCCTGAAAGAGCTGTTCCTTTTGGGTAAAAAATACGATATCGGTATCAACATCGA
TGCCGAAGAAGCCAACCGTCTGGAGCTGTCTTTGGATTTGATGGAGGCTTTGGTTTCAGA
CCCTGACTTGGCTGGCTACAAAGGTATCGGTTTCGTTGTCCAAGCCTACCAAAAACGTTG
TCCGTTCGTTATCGACTACCTGATCGACCTTGCCCGCCGCAACAACCAAAAACTAATGAT
CCGCCTCGTCAAAGGCGCGTATTGGGACAGCGAAATCAAATGGGCGCAAGTGGACGGCTT
GAACGGCTATCCGACCTACACCCGCAAAGTCCACACCGACATCTCCTACCTCGCCTGCGC
GCGCAAACTGCTTTCCGCGCAAGACGCGGTATTCCCGCAATTTGCCACCCACAACGCCTA
CACTTTGGGCGCAATCTACCAAATGGGTAAAGGCAAAGATTTTGAACACCAATGCCTGCA
CGGTATGGGCGAAACCCTGTACGACCAAGTCGTCGGCCCGCAAAACTTAGGCCGCCGCGT
GCGCGTGTACGCCCCAGTCGGCACACACGAAACCCTGCTCGCCTACTTGGTGCGCCGCCT
GTTGGAAAACGGCGCGAACTCGTCTTTCGTCAACCAAATCGTCGATGAAAACATCAGCAT
CGACACGCTCATCCGCAGCCCGTTCGACACCATCGCCGAACAAGGCATCCACCTGCACAA
CGCCCTGCCGCTGCCGCGCGATTTGTACGGCAAATGCCGTCTGAACTCGCAAGGCGTGGA
CTTGAGCAACGAAAACGTATTGCAGCAGCTTCAAGAACAGATGAACAAAGCCGCCGCGCA
AGACTTCCACGCCGCATCCATCGTCAACGGCAAAGCCCGCGATGTCGGCGAAGCGCAACC
GATTAAAAACCCTGCCGACCACGACGACATCGTCGGCACAGTCAGCTTTGCCGATGCCGC
GCTTGCCCAAGAAGCGGTTGGCGCAGCCGTTGCCGCGTTCCCCGAATGGAGTGCGACACC
TGCCGCCGAACGCGCCGCCTGCCTGCGCCGTTTTGCCGATTTGCTGGAGCAGCACACCCC
AGCACTGATGATGCTTGCCGTGCGCGAAGCAGGCAAAACGCTGAACAACGCCATTGCCGA
AGTGCGCGAAGCCGTCGATTTCTGCCGCTACTACGCAAACGAAGCCGAACATACCCTGCC
TCAAGACGCAAAAGCCGTCGGCGCGATTGTCGCCATCAGCCCGTGGAACTTCCCGCTCGC
CATCTTTACCGGCGAAGTCGTTTCCGCATTGGCGGCAGGCAACACCGTCATCGCCAAACC
CGCCGAACAAACCAGCCTGATTGCCGGTTATGCCGTTTCCCTCATGCACGAAGCCGGCAT
CCCGACTTCCGCCCTGCAACTCGTCCTCGGCGCAGGCGACGTGGGTGCGGCATTGACCAA
CGATGCCCGCATCGGCGGCGTGATTTTCACCGGCTCGACCGAAGTGGCGCGCCTGATCAA
CAAAGCCCTTGCCAAACGCGGCGACAATCCCGTCCTGATTGCCGAAACCGGCGGACAAAA
CGCCATGATTGTCGATTCCACCGCACTTGCCGAGCAAGTCTGCGCCGACGTATTGAACTC
CGCCTTCGACAGCGCGGGACAACGCTGCTCCGCCCTGCGCATTTTGTGCGTCCAAGAAGA
CGTTGCCGACCGTATGCTCGACATGATCAAAGGCGCTATGGACGAACTCGTCGTCGGCAA
ACCGATTCAGCTCACTACCGATGTCGGCCCCGTCATCGATGCCGAAGCACAGCAAAACCT
GTTGAACCACATCAACAAAATGAAAGGTGTTGCCAAGTCCTACCACGAAGTCAAAACCGC
CGCCGATGTCGATTCCAAAAAATCCACGTTCGTTCGCCCCATCCTGTTTGAATTGAACAA
CCTCAACGAACTGCAACGCGAAGTCTTCGGTCCCGTCCTGCACGTCGTCCGCTACCGCGC
CGACGAACTCGACAACGTCATCGACCAAATCAACAGCAAAGGCTACGCCCTGACCCACGG
CGTACACAGCCGCATCGAAGGCACGGTACGCCACATCCGCAGCCGCATCGAAGCCGGCAA
CGTTTACGTCAACCGCAACATCGTCGGCGCAGTCGTCGGCGTACAGCCCTTCGGCGGACA

CGGTCTGTCCGGCACAGGCCCCAAAGCAGGCGGTTCGTTCTACCTGCAAAAACTGACCCG
CGCCGGCGAATGGGTTGCCCCGACCCTGAGCCAAATCGGACAGGCGGACGAAGCCGCACT
CAAACGCCTCGAAGCACTGGTTCACAAACTACCGTTCAACGCCGAAGAGAAAAAAGCCGC
AGCGGCCGCTTTGGGACACGCCCGCATCCGCACCCTGCGCCGTGCCGAAACCGTCCTTAC
CGGACCGACCGGCGAGCGCAACAGCATCTCATGGCACGCGCCCAAACGCGTTTGGATACA
CGGCGGCAGCACGGTTCAAGCCTTTGCCGCACTGACCGAACTTGCCGCCTCCGGCATACA
GGCAGTGGTCGAACCCGACAGCCCCTTGGCTTCCTACACTGCCGACTTGGAAGGTCTGCT
GCTGGTCAACGGCAAACCCGAAACCGCCGGCATCAGCCACGTTGCCGCCCTGTCGCCTTT
GGACAGCGCGCGCAAACAGGAACTTGCCGCCCACGACGGCGCACTCATCCGCATCCTCCC
TTCGGAAAACGGACTCGACATCCTGCAAGTGTTTGAAGAAATCTCTTGCAGCGTCAACAC
CACAGCCGCCGGCGGCAACGCCAGCCTGATGGCGGTCGCCGACTGATTTTGCCGAAATAC
CCGGGCGCGGCCCGTGAACCAATGCCGTCTGAAAACCTTTCAGACGGCATTTTTATAATG
GATTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAGATAGTACGGAACCG
ATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACG
CCGTACTGGTTTTTGTTCATCCACTATAACAGCAACCCTGTCGCCGTCATTCCCGCAAAA
GCGGGAATCCAGTCCGTTCAGTTTCGGTCATTTCCGATAAATTCCTGTTGCTTTTCATTT
CTAGATTCCCACTTTCGTGGGAATGACGGCGGAAGGGTTTTGTTTTTCCGATAAATTCT
TGAGGCATTGAAATTCCAGATTCCCGCCTGCGCGGGAATGACGATTCATAAGTTTCCCGA
AATTCCAACATAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 85>:

gnm_85

TTTGCGGATCAACCCGCCCGCGTAGCCGGTCAGTTTGCCGTCGCTGCCGATGACGCGGTG
GCAGGGAATCAGGATAGATACTTTGTTCTGCCCGTTGGCGGCGGCAACGGCGCGGACGGC
TTTGGGGTTGCCCAAACGCTGCGCCTGCTCCTTGTAGCTGCGCGTTTCGCCGTAAGGAAT
CGCCAAGAGCGCGTCCCATGCCTGCTTTTGAAACTCGGTGCCAATCTGCTCCAAAGGCGT
GGCAAAGGTTTTCAGACGACCCTTGAAGTATAAGTCCAATTCCTGCCGCAAAAGTTGCGT
CCGCTCATCCTCCCGAAACACAAACCGTCCGCGCAAGGCTTTTTGGACGGCGGCAATTTC
CTGTTCCAAATGCTTCTGTCCGACAAATTCCAGCAAACACAAACCCCTGCTACCGAACAC
CGCCAGCATCTCGCCCAAAGGCGTGGCAATGGCGGCACACACCAGCTCGTTCAAACTGTC
GGGATAACGCGCTTCCAACAGACGGATGGCGCGGCGGATGCGGACATATTCTTCAGGCGC
GCAGCCGATATTGTCCCAAAAATCCCGCTCGAACTGTTTGGCTTCGCATTCCGTCAGATT
GGGATGCGGCATAACGCCGCACTCAAAAACCCGAGATTCGAGCCAATGGCGGATTTCATC
CCATTTTGACGGCAGATTGTTTAAGGAAGGCAGGGTAATCATTTGTTTGCTCCGTATCCC
TATCATAGATTTGACGGCAAAATCCCCAATTTTTGCCATTCCCGCACGCCGGAGCAGGAA
CGGGCTATGACGTAAATCTTGAGGGTTAGGTTGCGGCAATACCTAAATATTCGATATTTC
TAAAGCATCAGAGAAAGGAATGTTTCAACACACAGGACGACACATAAAGCGCCGCCCCAT
GAAAAATTTCAGACGACCTGCAAAGGGTCGTCTGAAACCACGATTTTTGCATTTGCGCAT
TCTGGCACATCATCCAACCGTTTCGGCACATTCCTGCCGCCGTTGACAGCCTATAATGAA
TCCACTTATTCATCAAGCAAAGGAATCATCTATGCAAACCCTCATCCTCTCCGCCGTACT
GCTGGCTTTTTCAACCGCTGCCTTTGCCGGGGGCGCATTCACGCTGCAATTCGACAACCC
GTCCGAAGACGGCGGCTTCACGCAAAACCAGCTTTTGAGCGCGCCTTACGGCTTTTGCTG
TTCAGGCGACAATGCTTCGCCCGCGCTGTCGTGGAAAAATCCGCCCGCCGGGACAAAAGT
TTCGTCCTGACCGTTTACGATAAAGACGCGCCGACCGGACTGGGCTGGATGCACCGGGTG
GTCGCCGACATTCCCGCCGATGTCCACCGCCGCAACGCGACCTCGCTGCAATTAAGCCGC
TGCGCCAACATCGCCGACCGGACTGGGCTGGATGCACTGGGTGGTCGCCGACATTCCCGC
CGATGTCCGCCGCCGCAACGCGGCCTCGCTGCAATTAAGCCGCTGCGCCAACATCGCCGA
CGACCAGTCCGCAGCCATATCGGCGGTAATCAGTTTGCGGATTTGCCGCATCAGGTTGAC
GCCTTCGTACACGGCAAAACCGATGCCGTCATGCTGCAACCACGCCAACACGCCGCAAAG
CGCGGCCTCCGCAGCATTGTGCGGCACTTCTTCATCCGCCAGTACCGCAGCCTCATAATC
AAACGCCGCGCCCATACGCCCGGAATACGGCAGCTTTACCGCATCGCACACTGCCTGCGC
CGTCCCGTATTGTGCGGCGAACCTTTCTACGGTTTCCTGTTCGAAAGCAATCCATTGCGC
CTGATAGAGGCCGTCTGAATCGGGAATATTGATGACGTCAAACGTCTGTCCGCCTGCCAA

GGCGACCGCCTTACCCGCCGCAGCTTCTTACTTCCGCGCCGCACGATAAGCACAGCCGGT
TCATATACCGCCACGCTGCGGTACAAGGCGGTATGATGTTGCACGATGCCGCCTAAAGCA
CCCAATCGTTCGCGCGTATGAAAGTATAGTGGATTAAATTTAAATCAGGACAAGGCGACG
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AATCCACTATATCTCAAACCCACGTTAGGTCTAAGCAAATGGTCGGACATCCTTATCCGA
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ATGCCCTCTCCCTAACCCTCTCCCACGGGAGAGGGAATGGATTGCCGTTGAAATAAATCG
CTCTACATAAAAAATCAATGTGTTATCTCAAACCCACATTAGGTCTAATCAAATGGTCGG
ATATCCATATTCGGCAAGCAAGCTGCTTTCAGACGGCATTTCCAGCCAACAAGCGCGCCA
ATATCCCCTCATACACCGCAGACAGCTTCGGAATGTCGTTTAGCCGCACGTTTTCGTTGA
TTTGGTGGATGGTCGCATTGGACGGCCTAATTCGATAAGTTCTTGCGCAATGGCTTTGA
TGAAGCGTCCGTCCGAAGTGCCGCCGGTGGTGGACAATTCGGCCTCAATGCCGCAGGTTT
CGGCAATGGCTGCGCGTGCCACGTCGGTCAGTTTGCCCGCTTGGGTCAGAAAGGGCTGCC
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CAGAGTCAGGGAAGCTTCTTCGCCGCCGCCGATCAGTTTGGTATGGGCAACAACGCGTGC
ATCATCAGGTTTGACATAGTCGGTATCGGCAGCACCTACGCCGTCTTTAAATACGCCGTC
CATGTCTTCAGCTTTGGCAATCACGAGATTGTGACCCATGCTGGCTTTGGGTTGCGTACC

GGTATGTTTCAGAGTGATGGTGAACTCTTTACATGCTTTGCTGACTTGGATGTCTTTGGT
GTTGAACTGCATATTGTCGTTGGATTCGACAGTTGCCGCACAGTTGCCGGCAGCAGGGGC
TTCGGCAGCATCTGCAGGAGCAGCTTCGGCGGCAGGCGCTTCGGAAGCGGGTGCTTCAGC
AGCAGGAGTTGCCTCGGCAGCAGGCGCGGCAGGTTCTTGAGAGCAGGCAGCCAAACCGAT
AACGGCGGCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 86>:

gnm_86

CCGCAATATTCGTGAAACGTCGGTCGGCATCGATGATGTGAAAAAACCCCCGCTTTTGCT
GGGTTTGTTTTTTTGGGTGGTTTTCTGGCACGGCTATCGTCAGAATCGGGGTGCAGGTTC
GGATTCGGATTCAGATTCAGATTCAGATTCAGATTCAGATTCAGGTTTGTGTCCCATTGC
CGCGCTTTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAA
ATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCT
AAGGTGAGGCAACGCTGTACTGGTTTAAATTTAATCCACTATATCGGTTGAAACTCTGAT
TTTAAGGCGGTAGGATGTGGGTTTGCCCATAGAAAGGGAATCCTTTCTGTATCAAGCCCT
GAAAGGGATAATTCATACAAATTCACGCCTTTCCCCCTCATTGGGAAATGGATGGAATCG
TGCCAGATGTGTGCGGCACTGTATGCCGGATATGGTTTTATCATCAGCCCTTTTCGGTTG
AAACCCCGTCAGTTGCAGCGATTGAGCCTAATCGGTGGCGGAAGTTGCCGCTTTGCATTC
GGGGCGGCGTGCAGTGCGGTGCTTTGATATGCCGTTTGTGTGTTGAAACAGGGTGGTCGG
TGCATACGGGTACGGTATGGCCAAAGCTAAAAGTGAAATACGCTGAAACACTGAATGAGC
CGCTTTATTGTTTGTACGGCCTTTGCTGCCTTGCTATGATTTAAATTGGATTCGCCCGCC
GGATATTTTGGGATATGAAAGAATTTGACTTCATCAAACGGTATTTGCAAACAGGCACGG
ATAATGATGTCGTATTGGGCATAGGCGACGATGCGGCGATTGTCCGCCCGCGTGAAGGCT
TCGATTTGTGTTTCAGTGCGGATATGCTTTTGAAGGACAGGCATTTTTTTGCAGATGTCA
AACCTGAAGACTTGGCTTGGAAGGTTTTGGCCGTCAATATTTCAGATATGGCGGCGATGG
GTGCGATACCGCGTTGGGTGTTGCTGAGCGCGGCTTTGCCCGAATTGGATGAGGTATGGC
TGAAACGGTTTTGCGGCAGCTTTTTCGGTTTGGCAAAAAAGTTTGGCGTAACGTTAATCG
GCGGCGATACGACCAAGGGCGATATGGCGTTCAATGTAACCATTATCGGCGAATTGCCGA
AGGGTAGGGCGTTGCGGCGTGATGCGGCGGTTGCGGGCGACGATATTTGGGTGTCGGGGC
GTATCGGTATGGCGGCGGCGGCTTTGAACTGCCGTCTGAAACGGTGTGTGTTGCCAGATG
AAGTGTTTGCCGAATGCGAACAAAAGCTGCTCCATCCTGAACCAAGGGTTGGGCTGGGGC
TTGCGCTGTTGCCGTTTGCCAGGGCGGCGCAGGATGTTTCAGACGGCCTCGCGCAAGATT
TGGGGCATATCCTGACCGCTTCTGGCAAGGGTGCGGAAATTTGGGCCGATTCGCTGCCGT
CTTTATCCGTATTGAAAGATATTTTGCCCCGAGCGCAATGGCTGTCTTATACTTTGGCGG
GCGGCGACGATTACGAGCTGGTGTTTACCGCGCCGGAAAGTTGCCGCAGCCGCGTATTTG
ATGCGGCGGAACGGTGCGGCGTGCCGGTAACGCGCATCGGCAAAATCAACGGAGGATGCC
GTCTGAAGGTTTTAGATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 87>:

gnm_87

CCTAGTTTCTACAGCGGCCTGTATGTTGGCAATTCAGCAGCTTCTTCTGTATCTGCTGTA
CAAATTTAATGAGGGAATAAAATGACCAAACAGCTGAAATTAAGCGCATTATTCGTTGCA
TTGCTCGCTTCCGGCACTGCTGTTGCGGGCGAGGCGTCCGTTCAGGGTTACACCGTAAGC
GGCCAGTCGAACGAAATCGTACGCAACAACTAtGGCGAATGCTGGAAAAACGCCTACTTT
GATAAAGCAAGCCAAGGTCGCGTAGAATGCGGCGATGCGGTTGCTGCCCCCGAACCCGAG
CCAGAACCCGAACCCGCACCCGCGCCTGTCGTCGTTGTGGAGCAGGCTCCGCAATATGTT
GATGAAACCATTTCCCTGTCTGCCAAAACCCTGTTCGGTTTCGATAAGGATTCATTGCGC
GCCGAAGCTCAAGACAACCTGAAAGTATTGGCGCAACGCcTGAGTCGAACCAATGTCCAA
TCTGTCCGCGTCGAAGGCCATACCGACTTTATGGGTTCTGACAAATACAATCAGGCCCTG
TCAGAACGCCGCGCATACGTAGTGGCAAACAACCTGGTCAGCAACGGCGTACCTGTTTCT

AGAATTTCTGCTGTCGGCTTGGGCGAATCTCAAGCGCAAATGACTCAAGTTTGTGAAGCC
GAAGTTGCCAAACTGGGTGCGAAAGTCTCTAAAGCCAAAAAACGTGAGGCTCTGATTGCA
TGTATCGAACCTGACCGCCGTGTGGATGTGAAAATCCGCAGCATCGTAACCCGTCAGGTT
GT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 88>:

gnm_88

GCCGATTTGGACGCGCTCGAGCATAATGTTGCCCACAATTTTGCCGAATATCAGGAAGCT
GCCCACATCsTTTCTGCCATGCGCCATCAGGCGGCAGAGCGTTTGAGCGGCGAAACGACC
GAGCATATGCAACACCTTGCCATGAAAGGCGCGCGTTTCGACATCGTCCTGTTGCCTTCG
TCGCCGACGGCACACGGTTTGGAGCAGGTTCAATTTCAAGTTGCCGCCAACAAAGGCAAT
CCGCCCCGTCTGCTGAATAAAGTTGCCTCCGGCGGCGAATTGGCGCGTATCAGCCTTGCC
TTACAGGTTGTTGCCAGCCAATATACCCAAGTTCCCACCCTGATTTTTGATGAGGTCGAT
ACCGGTATTGGAGGGGGGAGTGGCTGAAATGGTCGGCAAGGCATTACGTGCGTTGGGCAGA
AAACATCAGGTGCTTGCCGTTACCCACCTTCCCCAAGTCGCATCCTGCGGAGAAAACCAC
TGGCGGGTGCGCAAGCACAGCGAGGGAGAGCAAACCGTCAGCGAAATCAGTATATTGGAT
GAAATCCAACGGATCGAAGAGGTTGCCCGTATGTTGGGCGGAGAAGTCATTACCGATACG
ACGCGGCAACATGCGGCAGAATTGCTGCAACTTGCGTCGAAAAATAGTTTATTTTAAAAT
CAATCAGTTAAAAAATAACTAAAAATAAAAGTCTAAAACAATAGACAGAACTCAGATAAA
TCCGTATTATCACGCTTTCTTAATCACTTGAACAAGTGATTGTGCTGCACCCGTAGCTCA
GTTGGATAGAGTATCTGGCTACGAACCAGAGGGTCGGGCGTTCGAATCGCTCCGGGTGCG
CCAGTAAGAAAATACAATATGCGCCCATCGTCTAGCGGTTAGGACATCGCCCTTTCACGG
CGGTAACCGGGGTTCGATTCCCCGTGGGCGTGCCAATTCAAAATGCCTCCGATTATATCG
GAGGCATTTCTCATTTCTCATTTCTCATTTCTCATACTGAGACCTTTGCAATAACATAGG
TTACTAAAATTTTATGCTCAATCTCATTTTCAAAATGCAAAACTTTTCTGATTTTTCCTA
CTTTTTGCTCAATATTAGGAAGGTTTAGGCAATTGAAAATTTTTTGGCGCATTTTTATG
CGTCAAATTTCGTTAACAGACTATTTTTGCAAAGGTCTCGGATTAACAAAAATCAGGACA
AGGCGATGAAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCA
CCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTGTTAAT
CCACTATATTGAGTCCTCGAGAAGGGAAATAAAAATTAACATCCTTATATATTGAGTTCC
TGAGAAGGGAAGATTAACAAAAATTAACGCCCTTTACTTCATACAATCAACAGGGCTTTT
TCATTCCTTCCTTATCTAACAGGGGGTACAGAAACCGAAACGGCTGGCAGGGTTAAGGAA
GTCTTCGAATGTTACGGAACATTCATCTTGGACAGCAAAGGCAATTTGTTAGGCATTCCT
TACTCCTTATTTTGGGAAGAAAACGTTATGGGTGTTTTCGATATTTTACCGTCAGGATTG
GTATGTTTATTTGAATATGATTTTCTGTGGTCGGGACGGCATGCGGCAAAGACTTAAGGG
GTTAGATCCTTCCTTCTGACGATGGCGCGGATGATGGTGCGGTTGGGGTGTAGGGCGTGG
CGCAGGCGTTGTGAAAAGGGATGGGGCAAGCCTAGGATTTGGGCTGCAATGGCGGCGGCG
CAGATGGGGGCGGTGGCGAGTCCGCGGGTGCCGTGCGCGGTGTTGACGTAGGCATTAGGC
AGGTATGGGCATGGGGTGTCGATGCGGTAGTTTTTGTCCAGCGCGAGTTTGGTGTAGGTC
TGCCGCATGGCGGCAATGTCGCCGAGTGCGCCGACTAGGGGAAGGTGGTCGGGGCTGTCG
CAGCGTATGGCGGCGTGCCCTTGGTGTTTTTGGGGGTTTGGGTTGGCGGCAAACAATGAT
TCGGAAAGGGCGGGGTTAAGGTGTGCCAATGCTTGGCGGTTTGAGGCTTCTTCGGCTTCG
TTCCATCCGGTATGGCTGCTGTTGGGAATAAAACTCGCGCCGTAGCAGTGCAGTCCGTGC
CACGACGGGCTGATGTAGCTTTCGCCTGAAACGGCGCAACGCAGTTGTTCGGAAAAACGGG
GTGGACGGTGTGAGGCCGGTTTGTCCGCGTATTTGCCTGAGAGGCAGGGCGGCGAGGTTG
GTTTCGGGTAGGTAGGGGCTGTTCGCACCGGTGCAGTAGATGATGTGTGTGGCGGTAAAT
GTGCCGTTTGGCGTGCTTGCAATCCACTTTTCCCCGTCGTGGGAAATGTCGGTCAAGGGT
GTGTCTTCGTGTAGTCCAATGAGCGGATGGTTGAGGAGGGTGCGGACGAATGCGGGTGGA
TTGAGCCATACGCCGTGTTGCCAGTAGAGTCCGCATGAAGGGTGGTCGTATGGGACGGAC
AGTGGGATACCGGCGATTTTTTCGGCTTCTGCAGATGTGATGCTGCGGTAGAGGTGGTTA
TGGTGTTTTTGCAAACCCAATTCGTGATTGCGTTGTTGTTCGGTGCGGCTGTAATTGAGG
TGGATGATGCCGTTGCCGCCCCAGGTTTCGGATTCGGGCAGGATGTGTCCGAGCAGGCGT
TTGGTGTAGCCGTAGCCGGCAAGCAAAAGTTCGGTCTGTTCGGTGTCGTGCGGCGAGATT

TTGGCGTAGAGCAGCCCTTGGCGGTTGCCGCTGGCGGCTTGGGCGGCTTTTCGGGCTTCC
AATACGGTAACGGAAATGCCGTGTGATGCTAAGGCGTGGGCGGTTGCCGCGCCGGATATG
CCCGCGCCGATAACGAGGATGTGTTCCGGTTTTTGCCGTTCGGATGTTTGTGGAAGTGCA
AACCAGGGTTTGTCGGGCTTGCTTTCGGTTTGCGGGATGGCTTCGGTCTGCCAGGAAATG
TGGTGGAAATGTTCGTGCAGGTGGTGGGTGCGTGAAGGGGGAACCAGCCAGAAGCGGACA
TCGGGCAGGATGTGTTCGATGAGGTTGATGCTGTCGAACTGGAGGCACTGCATTGCCTGA
TCCAAACGGTGCTTCAGACGGCATTCCGCGTCCGAAGCATCTTGTGCGGTTTGAAAATCG
GGAATCTGATTATCGGGGAGGCAGATAATCAGGTTGAGCGGGGGTGCGTGTTTGCGGATG
GCTTGGTCGAGTGTGCGGATGTCGGGAATGCCGTCCCATACGAGATTGTCCATATCAATG
CCGTTTAAAGTGTGGGTTTGAATATCGGTATCGGGATAAAGCTGTTAAAATACGCGCCGT
TTGAAGGCACGCCTGCGCCTGCCGGATATTGTATGCCGAACCGAGGTGTTTTTGAATAA
TATTCCTGTTGAAATCCGTTTGTTGAAAAACCGTACCGTGTTGGTTTTGACTTATGGGGA
CGAACCTAAAAATCTGCCTGCCGAATTTTTACGCGTCTATTCGCCGAGTGCGGAAGTGCG
CGGACACGGCGTGGGACAGGATGTTTTGCAGACCGGCAAGGCGGATGTCCAAATCGCGGA
TTTGCAGCCTGTCGGACAGTACGCGCTGAAAATCAGTTTTTCAGACGGGCACGACAGCGG
TCTTTACGATTGGGCGTATCTGCACAGACTGGCATACGGATACGATGCGATGTGGCAGGA
ATATTTGGACAAATTGGCGGCGGCGGGCGCGTCGCGTTTTGAAGAGAAATAAGACCGGTC
GGATGGTAATCTGACGGGCAAAGGTATCAGAGAGGTGGTTAGAATATGGGCGGACAGAAA
ACGCATTTCGGATTCAGTACGGTCAACGAAGATGAAAAAGCCGGCAAAGTGGCGGAAGTG
TTCCACTCCGTCGCCAAAAACTACGACATTATGAACGATGTGATGTCGGCAGGGCTGCAC
AGGGTGTGGAAGCATTTCACCATCAACACGGCGCACCTGAAAAAAGGCGATAAAGTGTTG
GACATTGCGGGCGGTACGGGCGATTTGTCGCGCGGTTGGGCGAAACGGGTCGGCAAGGAA
GGCGAGGTTTGGCTGACCGATATTAATTCCTCTATGCTGACCGTCGGGCGCGACCGTCTG
TTGAACGAAGGCATGATTTTGCCCGTATCGCTTGCCGATGCGGAAAAACTGCCTTTCCCC
GACAATTATTTCAACTTGGTTTCCGTGGCGTTCGGCTTGCGGAACATGACGCATAAAGAT
GCCGCGCTGAAAGAGATGTACCGTGTTTTGAAACCGGGCGGCACGTTGCTGGTGTTGGAG
TTTTCCAAAATCTACAAACCTTTGGAAGGCGCGTATGATTTCTATTCGTTCAAGCTGCTG
CCGGTCATGGGCAGGCTGATTGCGAAAGATGCGGAGAGTTACCAGTATCTTGCCGAATCC
ATCCGTATGCACCCCGATCAGGAAACTTTGAAACAGATGATGCTGGATGCGGGCTTCGAC
AGCGTGGATTATCACAATATGAGTGCGGGCATCGTCGCGCTGCATAAGGGCGTGAAATTT
TAAACGGACTGGCTGTGCAGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 89>:

gnm_89

GTAGAATTGCTAAGGAATCCTCACGATGCTTCTAACACTTTCTTTGCGTGATTTTGTCAT
TGTTGAAAATCTGAATCTGGATTTTCAAAGCGGCTTTACCGTATTGACCGGAGAAACTGG
CGCGGGCAAGTCCATTACTTTGGATGCGATTGGTCTGCTGTTGGGCGATAAAGCCGATTA
CAGCCAAGTCCGCAGCGGCGCAAAAGAAGCGCAGTTGTCGGCGTTGTTTGATATTTCCCA
TTTACCTGTTTTAAAAGCAGAATTGTATGAACAGGGGCTTTTAAACGACGGAGAAGAAGA
ACTCAGTATCCGCCGCATTATCGATGCCAAAGGCAAAAGCCGCAGCTTTATCAACAATCA
GGCCGCTACCTTGGCGCAACTCAAAGCCGTCGGTAGCCAGCTTATCGACATCCACGGGCA
AAACGCCCATCATTCGCTTAATCAGGAAGCCGCCCAGCGCGAATTGTTGGACGCATTTGC
GGGTAGCAGGGAGCAGGCGGAAACCGTCAGGCAGCTTTATCAAAATTGGGCCAATGCGAA
AAAAGCCCTCCAAGAGGCGCAGGAACACGCCGATGCCGTCATTATCGAGCGGGAGCGTCT
GGAATGGCAGTTTAACGAATTGAATCAGTTGGACATTAAACAAGGCGAGTGGGAAGCCCT
CAGCCAAAGCCACGACAGCCTTGCCCATTCTGCCGAGCTGTTGCAGGCTGCCGAAGAAGT
CGGAAGCAAGATTGACGGCGACAACGGCATCCAACGCCATATCTATCAATGTCAAAAACT
ATTGGCCAATCTGCAAAACATCGAGCCGCGCTTTGCCGAGAGCCTGAATATGTTGGCAAG
CATCGAAGCCGAATTGGGCGAAATCAGTGCCAATATGCGCGATGTGGCAGGTCGCAGCGA
CATCAATCCCAACGAACTTGCCGCACAAGAGCAGCGCATGGGCGAGCTGATGGGGATGGC
GCGGAAATACCGGATCGAGCCTGAAGAGTTGCCTGCCAAGTTGGCAGAAATCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 90>:

GNMCD84F gnm_90

TCGACTCTAGAGGATCCCCGGGCGTATTCGGCGCGTGGCTTGCCACACCCAGCACCATTC
GGCTTCAAAGCCAAAAAATCAACACACCGTCAAAAATGCCGTCCGAACCCGTTTTCAGAC
GGCATTTCAATTTGCCTAGTATAATGGCGCATTTTTCCAACAAGGAACCTACCATGCTGA
CCTCGGAACAAGTAAAAGCCATGATTGAAGGCGTGGCAAAATGCGAACATATCGAAGTAG
AAGGCGACGGACACCATTTTTTCGCCGTCATCGTTTCATCAGAATTTGAAGGCAAGGCAC
GCCTCGCGCGCCACCGCCTGATTAAAGACGGACTCAAAGCCCAACTGGAAAGTAACGAAC
TGCACGCACTTTCCATTTCGGTTGCCGCCACTCCGGCGGAATGGGCAGCCAAAGCACAAT
AATCGCCACACAAAAATGCCGTCTGAAACCATTTCGTTTCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 91>:

GNMCD96F gnm_91

TTGCATGCCTGCAGGTCGACTCTAGAGGATCCCCGGCGGATTTTTGCCGCGTGTTCCGCG
TCGGCGTGTGCGTTTAAGGCTTCGAGGGCGTTTGCGGCGGCTTTGAGGCGGCTGCGTGTT
TCCGCCCAGACCGTCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 92>:

GNMCE20F gnm_92

CCGGGACCTTTTTTCTCCAGAAAGCCGGCAATGGGGCTGTCGGGCCGGGTGGGCATCAGC
AGCTCGATCAAGGTGTCGCCCACCACGAAGGCGCGGACCCGCACACCCTGAGTTCCCACG
TCTTCGTCGGGGCCTTCGGGGCGCAGGCCGAGCGCGACATAAGGTGCGGCGCCCTGATCC
AGATCGGGGGTGGCGATGGCGACGTGGTCGAGGAGCATGGCCTCAGCTTATACCTGCTGA
CCAGGACGCGGCACACAAAAATGAACCGGGAACAGGTTTTTCTGGACGCCGGCCCCGCT
CGTTACACTCTGAAGTGTGACCCTGACCGCCCTGCTCGCCCTGCTGCTCTCGTACCTCAT
CGGCGCTATTCCGGCGGCGGCGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 93>:

gnm_93

CTTCGTCAACGAAAGCGCGCAAAACATCCGCCGCATCCTTGCCGAAGTGCCGATACACAT
CATCCAATTCCACGGCGACGAAGACGACGCATTCTGCCGCCAGTTCCACCGCCCCTATAT
CAAAGCCATTCGTGTTCAGACGGCATCAGACATCCGAAACGCCGCCACGCGCTTCCCCGA
CGCTCAGGCACTGCTGTTCGATGCCTACCATCCTTCGGAATACGGCGGCACCGGAAACCG
CTTCGACTGGACGCTGCTGGCGGAATATTCGGGCAAACCGTGGGTGCTTGCCGGCGGGCT
GACCCCTGAAAACGTCGGCGAAGCCGTCCGCATCACCGGAGCGGAATCGGTCGATGTATC
CGGCGGTGTGGAAGCGTCTAAAGGCAAAAAAGATGCCGCCAAAGTCGCCGCCTTTATCGC
AACCGCCAACCGCCTATCCCGTTAAAGCAACAAAAATTGCCGCCGGAATGACTTATAGTG
GATTAACAAAAACCAGTACGGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAG
GTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCC
TTGTCCTGATTTTTGTTAATCCACTATAATCTAAAAAATTTATGCTATTAAATCAGTAAT
TTCTGATGAATTTTGAAAACTTAATCCCGTCATTCCCGCGCAAGCGGGAATCCGGCTCGT
TCGGTTTCGCTTGTTTTAAGTTTCGGGTAACTTCCACTTCGTCATTCCCGCGCAGGCGGG

AATCCGGTTCATTGAATTTCAGCTATTTAGAATAAATTTTGAAACTCTAATCGCGTCATT
CCCACGAAAGTGGGAATCCAGGACGCAAAATCTCAAGAAACCGTTTTACCTGATAAGTTT
CCGCACTGACAGACCTAGATTCCCGCCTGCGCGGGAATGACGAATCCATCCATACGGAAA
CCTGCATCCCGTCATTCCCACGAAAGTGGGAATCCGGTTCGTTCGGTTTCGCTTGTTTTA
AGTTTCGGGTAACTTCCACTTCGTCATTCCCACGAAAGTGGGAATCCAGTTTTTTGAGTT
TCAGTCATTTCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCGCCTACGCGGGAA
TGACGGATTTTAGGTTGGGGGCATTTATTGGAAAAAGCAGAAAACCAAAAACAGCAACCT
GAAATTCGTCATTCCCGCGCAGGCGGGAATCCAATGC[illegible]TGAGTTTCAGCTATTTAGAAT
AAATTTTGAAACTCTAATCGCGTCATTCCCACGAAAGTGGGAATCTAGAAATTTAATGTT
GCGGCACTAGCCAAAAAAACCGAAACCGAACGGACTAGATTCCCGCCTGCGCGGGAATGA
CGGCTGCAGATGCCCGACGGTCTTTATAGTGGATTGAGACCTTTGCAATAACATAGGTTA
CTAAAATTTTATGCTCAATCTCATTTTCAAAATGCAAAACTTTTCTGATTTTTCCTACTT
TTTGCTCAATATTAGGAAGGTTTTAGGCAATTGAAAATTTTTTGGCGCATTTTTATGCGT
CAAATTTCGTTAACAGACTATTTTTGCAAAGGTCTCGGATTAACAAAAATCAGGACAAGG
CGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCT
TAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTGTTAATCCA
CTATAATATGCACAGATAATATCAACCCGTTTTTAACAAAGATATTCCCGGCATTTGCGT
AAAGTTCAGCAAGAAAAACTACAAACCCAGTCGCGCAGGAAGCGGATGTCGTCCGCCCAA
CCGGATTTGACTTTGACCCAGACCTTCAAAAATACTTTGGTATCAAACAGTTTTTCCATA
TCCAACCGCGCTTCGGTGGAAATTTTCTTCAAACGTTCTCCGCCTTTACCGATTAAAATT
GCCTTTGGCTTTCCTTATCGACCAAAACGGCGATATAGATGCGGTTCAAACCGTCTTCC
TCTTCAAACTGCTCCACTTCGACGTTCATCGCATAAGGCAATTCCTCGCCCAAGTAGCGG
AACAATTTTTCACGCACGATTTCGCGCGCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 94>:

gnm_94

TTTTCAGCTTGGTCTTAACCCGCCCCTGCTTGAGTTGGGAAAGGCTTTCGACAAACACGA
TGCCCATCAGGTGGTCCAACTCGTGCTGCACGCAAATCGCCAACAAGCCGTCCGCCTCCA
GCGTGAACTTTTCGCCTTTTTCGTTCAAAGCCTCGACGGTTGCATAATCTACATTTGCAC
GTAAAGTATGCAGTGGCACGCGACCTTCACGATACCATTCGCTACGGGCAATATCCGCAC
CATTCAGACGGCCTGAAGTCATAATCTTAATGCCTTTAGCACCAGAACGCATTGCATTTT
GCATTGCTCGTTTCATAGCACGACGGAATTGAACGCGCTTTTCCAACTGCTGGGCAATAC
CGTCAGCAATAATTTGAGCATCCAACTCAGGACGGCGAATCTCTTCAATATTTACATGAA
CAGGTACACCCATCAAGACTTGCAAGTCACGTTTCAAAACCTCGATATCCTCACCTTTTT
TACCGATAACCACACCCGGACGAGCGGAGTGAATGGTAATGCGTGCAGATTTTGCAGGGC
GTTCAATAACCACTCGACCAACCGAAGCATTGGCCAATTTTTGACGCAAATAATTGCGAA
CATCGATATCCTGCTTCAAAACAGTAGAAAAGTCGGTGCTTTTAGCAAACCATTTTGAAG
CCCAGTCTTTAGTTACCGCCAGGCGAAAGCCTGTAGGGTTAATCTTTTGTCCCATAGCTT
TTCCTTAGTTACCCACTGTCACATTGATATGACAAGTTTGTTTTTCGATGCGGTTACCGC
GACCTTTGGCGCGAGCTTGAAAACGTTTCAAGCTTGGGCCTTTGTCAACAAAGATAGTTA
CCACTTTCAGTTCATCAATGTCCGCACCGTTATTGTGCTCGGCATTAGCAATAGCTGACT
CCAATACTTTTTTAATCAGCTCGGCACCTTTTTTAGGACTGAAAGCCAAAATATTCAAAG
CTTGGGCAACGTCTTTACCACGAATCAAATCAGCTACCAAACGAGCCTTTTGAGCAGAGA
TACGGGCATTTTTATGTTGTGCATTTACTCTCATGATTCACCTTATTTCTTTTTAGCCTT
TTTATCGGCCAAGTGGCCTTTAAAGGTACGGGTCAATGAGAATTCGCCTAATTTATGACC
AACCATATTGTCGCTGATAAACACAGGCACATGGGTGCGGCCGTTGTGCACAGCAATGGT
CAGACCGATAAAATCAGGCAGAATGGTAGAACGACGAGACCAGGTTTTAATCGGGCGTTT
GTCGTTGCTTGCGCGAGCAGCATCTACTTTTTTCAGCAAATGCAGGTCTACATATGGGCC
TTTTTTCAATGAACGAGCCATACTAAATTAACCTTTATTTGAGTAACGGCGACGAACAAT
CATGTTATCCGTGCGTTTGTTATTACGAGTGCGGTAGCCTTTAGCAGGAGTACCCCATGG
GCTGACCGGTTCGCGGGCCTCGCCCGTACGGCCTTCACCACCACCATGCGGGTGATCGAC
AGGGTTCATGACAACACCACGTACAGTCGGACGAATACCGCGCCAACGATTGGCACCGGC
TTTACCGATTTTTTTCAGGCTTTGCTCTTCGTTACCGACTTCACCGATGGTTGCACGGCA

ATCTACGTTGATTTTACGGACTTCGCCAGAGCGCAGGCGGACTTGAGCGTACGCGCCTTC
TTTAGCCAGCAATACCGCAGAAGCACCGGCAGAACGTGCAATTTGCGCACCTTTACCTGG
TTTCATTTCGATACAGTGAATAGTTGTACCAACAGGAATATTGCGGATCGGCAGAGTGTT
ACCTACTTTGATCGCAGCTTCAGCACCGGAAACCAATACTGCACCGGCTTGAATACCACG
AGGAGCAATAATGTAGCGACGCTCACCATCTGCATAGCACAACAGTGCGATAAATGCAGT
ACGGTTAGGGTCATATTCGATACGCTCTACTTTTGCAGGGATACCGTCTTTGTTACGTTT
AAAATCTACGACGCGGTAATGATGTTTATGACCACCACCTTTATGACGGGTAGTAATATG
ACCATTGTTGTTACGACCGGCAGTAGAATTTTTCTTTTCCAGCAGAGGTGCATAAGGTGC
ACCTTTGTACAAACCTTCTGTTACCACGCGAACCATGCCGCGACGGCCTGCAGAGGTCGG
CTTCATTTTAACGATTGCCATTTTGTTTATTCCTTATCTGCAGCTGCAGCAGCGGCTTCC
AAATCCAACTCTTGACCGGCAGCCAAGCTTACATAAGCCTTTTTAACATCGCTGCGACGA
CCTAAAGTGCGACCAAAACGTTTAACTTTACCTTTAATGGTAACAGTAGTAACGTCTGCA
ACTTGAACGCCGAACAGCAGCTCAACAGCCGCTTTAATTTCAGGTTTGGTTGCATTTGCC
AAAACTTTAAACGTCATTTGGTTACGTTTTCAGCCAATACGTTGCTTTTTTCAGAAACG
ATAGGTGCCAAAATCACTTGAGTCAAACGTTGTTGATTCATACCCATTGCTCCTCTAATT
GTGCAACTGCATCTTTAGTGATGATTACTTTTTTGTAACGCAGCAAGCTGTAAGGATCAA
CTTGTTGAGCTTCCAAAACCAACACGTTTGGCAAGTTGCGTGAAGCCAAGTAAACATTCT
CGTCGAGCTGTTTGGTTACAAACAACACTTGCTCCAGACCCAGATTTTTCACTTGTTCGG
CAAAAACTTTGGTTTAGGAGTTTCGGCAGTCAACGCCTCAATCGCAAACAAACGCTCGT
CACGAGTCAATTGGGACAGAATAGTCGCCATACCGGCACGGTACATTTTGCGGTTTACTT
TTTGAGTGAAGTTTTCGTCGGGTTTGTTCGGGAACGCGCGACCACCTTTACGCCACAGCG
GAGAAGAAGTCATACCGGAACGGGCACGGCCGGTACCTTTTTGACGCCATGGTTTTTTGG
TTGAGTGTTTTACTTCGGCACGGGTTTTTTGAGCGCGGTTACCGGAGCGGGCGTTTGCCA
AGTAGGCATTTACCAGCTGATGAACCAACGCTTCATTGTATTCGCGGGCGAACAAAGCAT
CAGAAACAGACAGACTGCCTGAAACTTGTCCTTTAGCGTCAATTACTTTCAATTCCATTA
CGCACCTACTTTCACGCTGGGACGAACTACAACATCGCTGTTGACCGCACCCGGAACAGC
ACCCTTAACCAACAGCAGTTGGCGTTCTGCGTCAACACGGACAACTTCCAATTTTTGAAC
AGTTGCTTTGGTGTTGCCGTATTGGCCGGCCATGCGTTTACCGGGGAACACGCGACCCGG
GTCTTGCGCCATACCGATAGAGCCTGGAACACGGTGAGAACGGGAGTTACCGTGGGAAGT
ACGTTGGGCACCGAAGTTATGACGTTTAATCGTGCCGGAGAAACCTTTACCTTTAGAGGT
ACCGGTTACATCGACCAGTTGACCGACTTCAAACATAGAAACGGTGATTTCGTCACCAGC
TTTCAATTCAGCCAGTTTTTCTTCAGTCAAAGCAAACTCAATCAAACCGCGACCGGCTTC
AACACCTGCTTTTGCAAAGTGCCCGGCTTCGGCTTTGTTGACACGATTGGCTTTTTTCTG
ACCAAAGGTAACTTGAACGGCAGTATAGCCGTCAGTATCTTTGGATTTTACTTGTGTAAC
GCGGTTGGCAGACATATCCAAAACGGTTACCGGAACAGAAACACCCTGTTCGTCGAACAC
GCGGGGTCATTACCnAACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 95>:

gnm_95

GGTTTTAACCTGCAAAACATCGTCCGCATTCTGCGGATTCTGCCAAACGGCGAGATAGCC
GTAAGTATCGGCAGCCCGTGCCGCCGCAGTCATCAGGCATAGTGCCGATACGGCCAGTAT
CTTTTTCATCATGATAAATTCCCGACGGTTCGTCCAAATTCTGTTGCATTATAAACAAAA
AACAGGATAAGTCCCGCCTTATCGGCTTATCCCTCCCCGCAGATTGCACCGCCGGGTATG
GCAAACCGATTTCAGCAGCGCAAATCCGCATACCGCCGCCTTAGCGGCAAGCCGTTGTTT
TCAGACGGCATTGCGGCCAACCTTTGCGGCGGGCGAAAAACCTTGTCCTATAATTTATCC
CGTTTCAAAATCAGCATACGGTCGGAAATGCAAAAAATATCTTTCAATTTGTTGAAGCCT
GCAAACTCCCCGAAAATAGGGAAACGCCGCCCCGGTTTGAACGGCGCGCCGCATATTCCG
ATGCCCTCCCCCCGATACCTTCCGGCAAGCCCAGAAATGCCCGGCAACAACATCCATCCG
GCAAAAATCCGAAACAACACACCCGGCGGCAGGCAGAGTCAAACCGCCCCGCAAAGCATC
CGCCATCAGAAAAACAAACCGCCTCCGAGGGCTTCATCCTAAAGGGCGTATTGTTCGATA
ATGGTTTGGGTTATAATCCCCTATCGATTCTCCACGTCCGTGAGACACTTCAGCTATGGA
AACCCCGACCAACACCCCGCAACGCTCCCTGCGTCAAAACAGTATCTACCTGCTGCCCAA
TTCCTTTACTATCGCCGCGCTGTTTTCCGCGTTTTACGCAATCACCCAATCCATGCACGG

ACGTTATGAAACCGCCGCCATCGCGGTATTCATCTCTATGTTGCTGGACGGTATGGACGG
GCGCGTGGCGCGGCTGACCAACAGCCAAAGCGCGTTCGGGGAGCAGCTCGACAGCCTTGC
CGATATGGTCAGCTTCGGCGTTGCTCCCGCTCTGATTGCCTACAAATGGCAGCTTTGGCA
GTTCGGCAAAATCGGTTATTCCGTCGCCTTCATCTACTGCGCCTGCGCCGCCCTGCGCCT
CGCCCTGTTCAACACACTCATCGGCAAGGTGGACAAACGCTGGTTTATCGGCGTGCCCAG
TCCGACTGCCGCCGCGCTGATTGTCGGGCTGATTTGGGTCAACCACAGCGTCGAAAAATT
CCCCGCCGTCCACTGGTGGGCATTGGGCATCACACTGTTTGCCGGCCTGTCGATGATTGT
CCAAATCCCTTTTTGGAGTTTTAAAGAAATCAACATCCGCAGACAAGTCCCCTTTGTCGG
AATGCTGCTTGCCGTCTTACTGCTGCTTCTGGTCACTTGGGAACCGTCGCTCGTCCTCTT
CCTGTTCTTTCTCGGATACAGCCTGTCCGGCTACATTATGGCGGCACGCCGATTTTGGAA
AAAGTACAGAAAGGCGGATTAAATGTGGCATTGGGACATTATCTTAATCCTGCTTGCCGT
AGGCAGTGCGGCAGGTTTTATTGCCGGCCTGTTCGGCGTAGGCGGCGGCACGCTGATTGT
CCCTGTCGTTTTATGGGTGCTTGATTTGCAGGGTTTGGCACAACATCCTTACGCGCAACA
CCTCGCCGTCGGCACATCCTTCGCCGTCATGGTCTTCACCGCCTTTTCCAGTATGCTGGG
GCAGCACAAAAAACAGGCGGTCGACTGGAAAACCGTATTTACGATGATGCCGGGTATGAT
ATTCGGCGTATTCACGGGCGCACTCTCCGCAAAATATATCCCCGCGTTCGGGCTTCAAAT
TTTCTTCATCCTGTTTTTAACCGCCGTCGCATTCAAAACACTGCATACCGACCCTCAGAC
GGCATCCCGCCCGCTGCCCGGACTGCCCGGACTGACTGCGGTTTCCACACTGTTCGGCAC
AATGTCGAGCTGGGTCGGCATAGGCGGCGGTTCACTTTCCGTCCCCTTCTTAATCCACTG
CGGCTTCCCCGCCCATAAAGCCATCGGCACATCATCCGGCCTTGCCTGGCCGATTGCACT
CTCCGGCGCAATATCGTATCTGCTCAACGGCCTGAATATTGCAGGATTGCCCGAAGGGTC
ACTGGGCTTCCTTTACCTGCCCGCCGTCGCCGTCCTCAGCGCGGCAACCATTGCCTTTGC
CCCGCTCGGTGTCAAAACCGCCCACAAACTTTCTTCTGCCAAACTCAAAAAATCTTCGGC
ATTATGTTGCTTTTGATTGCCGGAAAAAATGCTGTACAACCTGCTTTAAAACACACGAAAA
AACCTTTTTACCGTTTGCACAAGCAATTAATCAGGACAAAGCTGCCCAGTCTCCTGTTCC
GACAAAAGGACAGACAACCTGACCGAGACCTTTGCAGAATATACGAAAAACGACAGATAC
CGTCTGAAACCACATTCCGACAATCGGCAGGGTTTCAGACGGCATCTGATAATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 96>:

gnm_96

CCTTATTGTGGGAAGTATGCGGCGAAGAGGAATTTACCGCCGAAGCCATCGCCGAAGAAT
ATTACGGCCATGCGCCGACCAAAACCGAGCTGGCGGCAACTTTGATTGCGCTTTACGCCG
CGCCGATGTATTTCTACAAAAAAGCCAAAGGCGTGTTCAAAGCCGCGCCCGAAGAAACTT
TAAAACAAGCACTTGCCGCCATCGAACGCAAAAAACAGCAAGACGCGCAAATCGACGCTT
GGGCAGAAGCCTAAGGCGTGGACTCCGCCACCACTCAAAATCAGCTCTGTAAAACCGGTC
TGAGTCTTCTTTTCCCCCGTACTCAATAATTTATCCGCCGCCTCTTTACCACCAAATTCA
TTTACAATTTGTAAAAATCGTGTCGCCTTGTAAGGTTGCGGCAAATTCAAAGCCTCCTGA
TAAATATTTAACATGGCTTTATGAAATTCTTGTTCTAACTGATTTTTATCCATCATTCTT
CTTCCAATATTTCAGACCGGATTATTCTTACCCAGAATTTCTTTTCTCATCCGCTCCCGT
CTGATCACCTACCGAATCAGGTCGTCTGAAACAGTCTGAAATCGCTTTTCAGACGACCCT
CAGCCTTTTTCATACCCTTCGTAATAATACGACTGCTCGATACCTTTAAAGATGATTTCA
CGGTTGTCCACATCGTCAGTCAGGTTGTCCTTTAACAGAAAGCGCAGTTCTAAATCGTTG
ACGGGGCTGCGTTCCATCGCCTGCAAATACAGGGTTTTACTTACATTTTGCCAGTTCACG
ACTTTTTTCAGGTTTTTTTTCAGCACCAAATCCAGCCAGATGCGGGTACTTCTGCCATTA
CCCTCCAAAAACGGATGGGCAATGTTCATTTCAACATATTTGGCGATGATTTCTTCAAAA
GTCCGCTCGGGCATCTGCTCGATTTTAACCAAAGCCTCTTTTAAATACATGGCGTTGGCA
AAACGAAAACCGCCTTTGGAAATGTTGTCTTCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 97>:

gnm_97

CTTGGTGTTGATACCATTCGATTCCATTCGATGATAATTCCATTCGATTCTATGCGATGA
TTCCATTCCTTTCCATTAGAAGCGCGACACGGCGAAGGCGATATTTTGGTATTCCTGCCG
GGCGAGCGCGAAATCCGCGAAACTGCCGAAGCCCTGCGCAAATCCACGCTGCGCCGCAAC
GACGAAATCCTGCCCCTGTTCGCACGCCTGTCGCACGCCGAGCAGCACAAAATCTTCCAC
CCCTCAGGCGCGAAACGCCGCATCGTATTGGCAACCAACGTCGCCGAAACCTCGCTTACC
GTGCCGGGCATCAAATACGTCATCGACACCGGCCTCGCGCGTGTTAAACGCTATTCCGCA
CGGGCGAAAGTGGAGCAGCTTCATATCGAAAAAATCTCCCAAGCCGCCGCCCGCCAACGA
TCCGGCCGCTGCGGACGCGTCTCCGCAGGCGTGTGTATCCGACTGTTTTCAGAAGAAGAT
TTTAACAGCCGCCCCGAATTTACCGACCCCGAAATCGTCCGCAGCAACCTCGCCGCCGTC
ATCCTGCGCATGGCAGCATTGAAACTCGGCGATGTGGCGGCATTCCCGTTTTTAGAAATG
CCCGATTCACGGTATATCAATGACGGTTTTCAGGTGTTGTTGGAGTTGGGGGCGGTGGAG
GCCGTCTGAAAACAGGCAGACATAAAAGAAAATCCGCGTAGAGTGATGTAAACTTACCCT
TGCTTTAATAAGTAGAAAATGGTGGGTTTACGTCCCCCCCTGCGGCTACTAAAAAAATAT
AAGAGTAAACAACCTTTTTGAAAGAAAAATGTATGGACGAAATTCAAATACCCAAAAAAG
TGGAATTACAAACCAAACTAGAAAATGAAAAGATTGTTTATCGAAAGGTTCTACCACGA
TTATTGTTGGTGCTAATGGCACAGGGAAAACAAGATTAGCTGTTTATATTGAAGAACAAT
TAAAGGAAAAAGCACACAGAATTTCGGCTCATAGAGCATTAAAATTAAACCCTAATGTCA
ATAAAATACCAGAAAAGAGTGCCAAAACATATCTATCTTATGGTCAGAACTGGGATGGAA
TCGATGTATCAAATAGAAAAAATTATAGATGGGATAATAACTCATATACTCATTTACTCA
ACGATTTTGATTGGTTATTACAATATTTATTCGCTCAACAAAATAATATTGCGGTAGCAA
ATAATCAAAAGCTCAACCGTAATGAAAAAGTAACCAATTCAAAAACAAAGCTAGATATTT
TGCAAGAAGCATGGGAAACATTATTACCACACAGAAAATTACATATTACAGCAGATGATA
TTCAAGTCTCTGCTGTAGATAATGAGGAATTGTATTCTGCCTCAAATATGAGTGATGGAG
AGCGAGCACTTTTCTATATTCTTGGACAAGTTTTGTCAGTAGATGACGGTTCTGTCTTAA
TTTTTGATGAGCCTGAATTACATATTCATAAATCAATTATTTCAAATCTATGGGATAAAA
TTGAAGAATTACGACCTGATTGTTCATTTCTAATCATTACACACGATATTGAATTTGCTG
CAACTCGAGTAGCTAAAAAATATGTTATCAGAAATTATTATCCGACCCCTGCTTGGGATA
TTTCTGAAGTTCCTGAAAGTAATTTTGATGAAGAAACAATAACGATGATTTTAGGTAGCC
GTAAGCCAATATTATTTGTTGAGGGCAACAATAATAGTTTAGATATTGCTACTTACCGCT
ATTGTTATCCTGATTGGACCATCATACCCAAAGGGGCATGCAAAGATGTCATTCAATCAG
TATCATCGCTGAAAAAATTAAGTAATGAAATGCCATTACTAAACTTAAAATGTTCAGGTA
TTGTCGATTTAGATAGTAGGGATGAAAGAGAAATTGAACAATTAAATAATTTGGGTATTT
ACATTTTACCTGTATCCGAAATTGAAAATCTTTTTAGCTTAACTGATGTAGCAAAAGAGA
TATTGAAACTAAATCAATATTCAGATGAAGAATTACTCAATAAACTTAATGGATTTAAAT
CCGAACTAATTAAATATATAGATAATGAATTAAAAGACGATAAATTAGACGAATTTGTTG
TAAAACAGGTTCGACGTAAAATTGATAATTATTTAAAAAATATTGATTTATCCTCCAAAA
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TTTTAAAAGGAATGCGTAACAAACATGAATTTGAAAGCTGGATAATGAGAACATTAAAAG
GAAGGAATAAAGATTTTATTGATGCAATCAGACAGAAACTTCCAATTCTGGATTAAATAA
AACCATCTGAAAATTTACCTTCAGATACAGATATATTTCATGAAAAATCATCAAACTACA
CTCTCTTTCCCTACTTCGAGTAGCCTGAAACCTTGCGCAGACAAACAAGGCCTGTCTGAA
GACCGCAGCCAATACCGCCTGACCAAACTCGGCGAACAAATGGCGCACCTGCCTATCGAC
CCGAAAATTGCGCGTATTTTGTTAGTATTATTCCGTTTTTAAAAATGCCCGATTCGCGGT
ATATCAATGACGGTTTTCAGGTATTGCTGGAATTGGGGGCGGTGGAGGCCGTCTGAAAAT
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GAAACTAAAAACTATTAAAAAGGGAATATTGGGTTTTAAAACTCAATCGGTAAATTTTTA
TTGTGAAATATTAATGATGAAAAAATCTTTCCTTACGCTTGTTCTGTATTCGTCTTTACT
TACCGCCAGCGAAATTGCCTATCGCTTTGTATTTGGGATTGAAACCTTACCGGCGGCAAA
AATTGCGGAAACGTTTGCGCTGACATTTGTGATTGCTGCGCTGTATCTGTTTGCGCGTTA
TAAGGTGACGCGTTTGTTGATTGCGGTGTTTTTTGCGTTCAGCATTATTGCCAACAATGT
GCATTACGCGGTTTATCAAAGCTGGATGACGGGCATCAATTATTGGCTGATGCTGAAAGA
GGTTACCGAAGTCGGCAGCGCGGGTGCGTCGATGTTGGATAAGTTGTGGCTGCCTGTGTT
GTGGGGCGTGTTGGAAGTCATGTTGTTTTGCAGCCTTGCCAAGTTCCGCCGTAAGACGCA

TTTTTCTGCCGATATACTGTTTGCCTTCCTAATGCTGATGATTTTCGTGCGTTCGTTCGA
CACGAAACAAGAGCACGGTATTTCGCCCAAACCGACATACAGCCGCATCAAAGCCAATTA
TTTCAGCTTCGGTTATTTTGTCGGACGCGTGTTGCCGTATCAGTTGTTTGATTTAAGCAG
GATTCCCGCCTTTAAGCAGCCTGCTCCAAGCAAAATCGGGCAGGGCAGTGTTCAAAATAT
CGTCCTGATTATGGGCGAAAGCGAAAGCGCGGCGCATTTGAAGCTGTTTGGCTACGGACG
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GCACGCCAACGGCTTGGAACAAATCAGCGGCGGCGATACCAATATGTTCCGCCTCGCCAA
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GAACTTAATCGGTAAGAAATGGATAGACCATCTGATTCAGCCGACGCAACTTGGCTACGG
CAACGGCGACAATATGCCCGATGAGAAGCTGCTGCCGTTGTTCGACAAAATCAATTTGCA
GCAGGGCAAGCATTTTATCGTGTTGCACCAACGCGGTTCGCACGCCCCATACGGCGCATT
GTTGCAGCCTCAAGATAAAGTATTCGGCGAAGCCGATATTGTGGATAAGTACGACAACAC
CATCCACAAAACCGACCAAATGATTCAAACCGTATTCGAGCAGCTGCAAAAGCAGCCTGA
CGGCAACTGGCTGTTTGCCTATACCTCCGATCATGGCCAGTATGTTCGCCAAGATATCTA
CAATCAAGGCACGGTGCAGCCCGACAGCTATCTCGTGCCGCTAGTGTTGTACAGCCCGGA
TAAGGCCGTGCAACAGGCTGCCAACCAGGCTTTTGCGCCTTGCGAGATTGCCTTCCATCA
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GCCACAATAATACTTTTAGTTCGACATGGCGAGAGACATAGAAATGCACCACCCGACCAA
GGCTCAAGCGTCCAGCCATCTTTACTTAAATATACCCTTAGAGCAAATGTAATTTCTGCT
TGCCGATACATCCCCAATGTATTTCTGTCAGATAATGCTGCTTTGTCCTGAATATTATTA
TGCGCAGTAAGTACAATCTCTTTAAGCATCTCCTGAGATAAGTACTTGCTGATTTCACTT
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CCGTGTCCTTATCTTTCGGCACACCCGACCTGCAAATCACGCAAAACTTGGAATCCGTGT
GTAGGGTGTGTGCGGTACATACGCACGCAGTCTTTTTAAACCACAGCCCTTCCCAACTAA
ACCAAAAGGTCGTCTGAACCCTATTTTCAGACGACCTTTTGCCACTTTGTAAAACAAATC
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TCGACTTATCCGAATCGGATAATATATTTAGAATGGAAGGGGCAGAAACCTATAGGCAAT
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CAGAAACAATCCAGATACAGATTACGAGTCATAACTATAGGCTTAATATTACACGATTCT
CATTCCATCAAGGCGGAAAACCGCACAAATACTGAAACACTATCGATCGATTTGTAAACA
AGCCTACTTAAGTAACTTGCAGTCCTTATCATTTCCTTTAAAATAATCCAGCCCGTCACT
ACACGAACTGGCGGACTTCTTGCAAATAAAGGTTACTAGATTTTCATTCATCTTAATAAT
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CCCGCGCGCGATTCCATTCAAACGGATACAAAAGCCTTCTGCCTCTTTAATCGGCAAACT
TGGCCACTTGGTAGATGTTTGTTTAAACCTCCCATTCTGCAGATAAAACTTTTCCATAAA
ATGTGCATTTTCTAACAAGGCTGCCCGCACTGCATTTATCTTTGCTTTCTCAACATAATT
GCGATAGCTCGGATAAACAATTAAAGCAAGTACAGACAATATCAAGACCACTGATATTAA
TTCAACCAGCGTAAACCCCCGATTATCAGTCATTACTTTACTTCCAATAAGAACAGATTA
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GCCTTAATCAATATATTCGGTAATGACTGAATCAGTCAGTAAGCTTTTATCTCTTGAAGT
TCTTCAAATGATAGAGTCAAGCCTCACGAGCAATTAGTATGGGTTAGCTTCACGCGTTAC
CGCGCTTCCACACCCCACCTATCAACGTCCTGGTCTCGAACGACTCTTTAGTGCGGTTAA
ACCGCAAGGGAAGTCTCATCTTCAGGCGAGTTTCGCGCTTAGATGCTTTCAGCGCTTATC
TCTTCCGAACTTAGCTACCCGCCTATGCAACTGGCGTTACAACCGGTACACCATAGGTTC
GTCGACTCCGGTCCTCTCGTACTAGGAGCAGCCCCCGTCAAACTTCCAACGCCCACTGCA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 98>:

gnm_98

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ATGATGAGGTTTTCACATCGCCAAAACTTGCCAATCAAATGCTGGATTTATTGCCGTCTG
AGATTTGGTCAAATCCAAAGGCGACATTCTTAGACCCTGTGTGTAAATCAGGGGTATTTT
TGCGTGAAATCGTCAAACGCTTGGATGAAGGCTTGACCAATCAAATACCAGATAAACAAA
CTCGCATTAACCACATTTTAAAAAATCAAGTTTTTGGAAGTACTGCCACGTATGTAGGTA
GCTTTGACCGATATTTGCATAAAAACTCCTTTGCTGGTGAAAGGAATTATTTTGCCAATT
TTAAAATATTTCTGGCACCAAATAGTACAATGACAAAGACAATCATGCCAATGATTAAAT
CAGGATAGCTAGAATGAGTCAATAACGTCAATGCTCCCGCCGCTATCACACCGATATTGA
TGATAATGTCATTGGATGTAAAAATCATGCTGGCTTTGATATGGATTTCTTTATTTTGAT
TTTTGCTCAGTAGATATAAGCACAGCCAGTTTGCAATCAATGCCAAAAATGCCGTGCCAA
TCATCAGTTGATAATTGGGCAGCTGCTCAGCACCGATAAAACGCCTAATCACTTCTATCA
CCCCAAATAACGCCAATATTATCTGCGTTATCCCCGCCAAAAATGCCACACGTTTTTTAT
ACGCCAGCGTCATACCAATGGCTGATAGCGCCAATATATAGACAAAGCTGTCCGCCAGCA
TATCTAGACTATCAGCAATCAGCCCCATAGAATTAGCAAAAATACCAACCGAACACTCTA
TGATAAAAAACACAAAGTTAATCATGAGCACTTGATATAATAATCTTTTTTCTAAGTGCT
CATCAGGCTTGTTAAACACTATCTTATCAACAATCACTTCGGTGGAAATGATATGACTAT
CAAAATTAAGCGGTTCAAGTACTTGTAAAATCGTTGTATCTTGATTATCGTGATAGACGG
TTAAGCACCGCCCAGCAATATCAAACTGTAATTCATAAATATCAGACACATCTTTTAAAC
GCATGCGAATGAGCTGTTCTTCGGACGGGCAGTCCATTTTGGTAATGTTAAAAATGGTCT
TTTTCATCTATTTAGTTCCTTGTTTTGATCAGGTTGGCTCAAATAAATCTGTGTTTATAT
TGCTGCTTGGTAATTTTTGGATGGTTTGAGTAAATTGATTAGGTTAAAATTTACCTTTGG
AAGTACCGCCACGCATAATAGTTTAGATATGTTTATAATCTCTGGATAAAAAAACGTAAT
AAGTGCTTACTGGATAACAAAGTCCAAACCAATAGCAGGCAAAATAAGGCATCCACCCCC
CTTCTTCATTAAGGATATATATTGAGAAACAAATCGCAACTAAACAGAAAAAACTTGGGA
GATAAAGCCATTTCATTCCCCTATTCAAGAATCTAGCCAAGATAGGTATTTTGTATTCTA
CAAAAAAGAAAGGCATTTCCAAGGGAAACATGTCAGATAAAAACTTTTGTTTATTTTTTA
CTATAGATAGAACCTTGCTTCTCAAGAGAAAGCCATTAATAATACCGATGACAGCTATTA
ATATATAGAGAATAGTATAAGTATGAATAATCTTCATTAGACAAAAAGAAGAAATGGCAG
ATAAATTACATACGATATATTGGAATATAAAATATTTACGGTCTAAACCTTGTTCAGTTG
CAATTTTTTTAAAATTGCCTTGCATAAAAAAATCAAAGGCGTCCATTAAACTATCTTTCA
CATTAGAAATTTAAAAGCTAAATAATACGACAAACAATGTGAAGTACTATTCATGGTTTA
TTTAAAAAATAATACTATTCTGAACATTATTTAGATACAGAAATTAACAAATTAGAACTA
AACAAGCTTTTAAATACTTTAATTTTATTGGAAAGCTATAAAAGGAACTATAACTTTACA
CACTAGTCACTTCTTTTTAAGAGGCAAAAGGGATTGGGAAGGTCGTCTTGGAGATAAGCA
CTGGTATTTCGGCCAATGGTAAATAGAGTTTACCTCAAATAGGGTAGAACCTCCTTCATC
TGTCAGTTAATAACAGCCACTTTTACAATGCCCTGTCAAAATAAAGCGGCACGCCCGATT
TTTCACTCATCGTCATCAAATAACCCATCACCTTTTGGGGCCATTCGATGCCGCGCACCA
CGGTCAGATTCCTCAAAACGGGGAAAACCAAAATATCCTCCATACCGATTCCGCCGTTGA
TGCCGTCTGAAGCACCGTCCATCAAATTTTCCAACTCTTGCAAATCTGCGTTTATCCGTT
CGAGGTATTGGGCGGTTTTATTCAAATTGGCGGAAAAGCTGCCGATGCTTTTCTCTTTTT
TGTCTGTAAAATATTTCACCGCTTCCGGCGTTGCAAATTCAGGCAGCCCGATTTTGATCA
CGCGCGGCTGCACCAGTTTGTCGTTGTATCCGCCCACCTTGTCCAGCCACGCCCGTATCT
CGGGGCGGACTTCGTCTTTCAGACGGTCTTCGCGGTCGAAATGCCGCACAATGTCCAAAC
TCTCGCCCATAAACGAACCGTCTTCTTTTTGCAGGACGGGCACTTGTTTCGCACCGATCA
TACCGATCGGCGTTGCCTCGTCGTCGTTTGCCAGCACGGCTTCTTCAACGTCCGCGCCAA
ACAGCCCGGCAGCCATCCGCGCACGCACGCAAAACGGGCAATGGTCGTAAATATACAGTT
TCATCAAAATATTCCTCGTCAACCTGTCGGTACCGACTACCTTAACACCCCGCGCCGCCC
GAAACAAGTTTATCTTCCCGCCTATGCACCGTAAATAAATAAGCTGTTACAATAAACTCG
TTTTTATCGGAACGGAAGACCCCATCATGACCGCCATCAGCCCGATTCAAGACACGCAAA
GCGCGACTCTGCAAGAATTGCGCGAATGGTTCGACAGCTACTGCGCCGCTCTGCCGGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 99>:

gnm_99

TCATACATATAATTAATATAGAGCCTCAAGCAGATCAATTCCAAATATATGCTGAGTTTG
TAGCTATGTTAAGTTTCATGGATTTCTAACTCTAATCCTTATCTTTCGAGGTGATGATTG
TCTTGGTCCAACTCAAATTGTTCTCATTCTATGAAGGACAACATATCTTACTTGGACCAA
ATAAGTTCCTTAATCTTTAAACAAAATCAATTGGCGTTAGTAAATTAATTCATGTCCTAT
ACATATTACTCTAGGTCTAAGCTTACTTCAACTGACATGGGATCTCATAATCACTGGTTT
ACTTTAGTCAAGTGGTAAATGGGAAAGAATCTTGGCAAATTGTTGAAAGGGAAGTGGCAC
ACaAGAGAAAGTAAGAAACCGATAGGAGTTATTATTCCTTCATGATCAGAAGTGAGATTG
AGAGAATCTCACAAAGACAATCATATCTTGTTGTATAGTGACATGTTTCAAGAATAGGGT
TTTTAATTGTTGACACACACACGATCCAATCCATCAAACCCAGCCTGATCTCTTTTTCGT
GGCTGCGAAAAATACCGTCAATCAAGAGAAGAATAAGCATATCTCTCTGCTTATTCCCCA
CCACTTTGGGCTATCTCACACCCACACCCTTCATCTGAGCATGATTCTTGAACAAAATAA
TATTCTTCGAGAGAAAAAGTAAAAGCTTGGTCCACATAAATTGTAAGATTCTAATCCGAT
CATGCATAAAAAAGTTGCAAATACATATATAAAACATGTGCGGATGTACCATATTCTTTA
GCATCTGCAACAAAGAAACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 100>:

gnm_100

CGACCCGAGTCTTCGAGTAGGACCCACCTCTGAATCTGTGACAGACGCCGGTTTCGTTCT
CTCTCTCTCCTTTTTTTCCTCTCTTTGCTTTTCCAAAAAATAAAGTTGTCTTTTTTTATT
TATAATAAAATGATTTGTTGTTTCACAGTGTGTTGTTTGTTTTGGGGTAAAAAAGAAAAT
CATAAGGATGCTTTCAATATTTGTTTTGTTTTGGTTGAGTGATTGCTGAAGCCAACTTAA
AAGAGAGAGAAGAGAAGAGTGACTCTGTGTGTGTGTGCAAGAAAGTCTTCTCTTTCACAC
CTTTCGTTTTCTCGAACCTCTCCTTTAAAGATGGTGGAGGAATCTTGGGTTTGACAACTC
ATTAACACTGACCCTCTTTTTAGCTCTACAAGCATCCAAGGAACCCCTCTTACTTTTCCC
TCTTCTTCATTCCCTCTCTCTCTATATCTCCCAATTCCTTCTCTTTTTTTAACCTTGATC
TTCTTCTTATAAGAGACTCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 101>:

gnm_101

TAGCTTGAGAAAAGACTCAAGTTTGTCTGCTCCCACGCCCAATAAACTCGCATAAAAGAA
TTATTCTTGTTGTATGACCTTCTTCCAAAACGGAACGCCATCCCTGCATGTAATATATAC
ATGACACAATATTAATATTCTTTTTACTCTGTAGTTTGAATGTGGTATTTCGTTTCTTTT
CTCTTTTAGTTTCAGAAGGCTTGAAACCGCAACCCACTTCACGGCTCATTAAGCTCTCTA
TCATACAGAAACCATATTGTAACAGATGTACTGGAAAAGAAGTGAAACATGATAATGACA
GCGAGACGTATCATTTACTCTAGAGGATTGTGAAAAGAAAAAAATTACCTCTGAGAGGCA
CTCCAAGAGCATTTTGCAGCATTCTTGATGAAGTGGAACAACTCCAAACCGGTCAGCTAG
AAAGAGAAGATGAATCAACTCGGTGCCAAAATTCACAGTGTCTTCCATGTTCAACTCTCC
ACTATACATGAAATTCATCATAGCCTTGAATGCTTCTGGTGATACATCGGTTAGGTAAAT
CGTTGATGAATGGCTTTCACTCATCCCATTTGTAAACATCTGGATGTTCATAGAGAATAA
ATAAGAAAATTGAGAATCAATATATTCATGTACATCAGAACTGCGACACTAAAAGAGATT
CTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 102>:

gnm_102

TTTGCATTCAGGAGTAGCGGTTGACAAATTCAGCAAATTGAGAATATCCAGAGATTGGTG
TTCTCTTAAGTGTTGATTACTATTGTTTATATCATTACTACAGCTCTCAGACCCAACTGT
GAACTGATGCTGTTGCTGTCTCCTCTGCTCAAAATATTGTTTTTGCCTTCAGGTGCAACA
AAGATGAAATTAAAAGTGTAAGCACAATGGGAAGCATATGCTGACAAACATCTCATAAAG
AGAACAAGAAGGAGCTTACACACCTCTTCTTCACTGACGTGTGTGACTGATTACCCCAAA
AGGTTCCCAGAAAACAATAACAAGTCAAAATGAAAACAAATTATAAGAAAAAATAAGCTAT
TATCCCAACACCAAGAGGTTTTAGCTTCACCCCATTTATAACGGACCTCTGAATTTGAAA
TATCACTAAAAGGAAAAAGTCACTCACAGCGGCTACTTTCCGCCTCGATCCTCCCATCCA
TTGCAGCATTCGTAGAAATTCCGGtTCTTAGAGTTTTCAAATTGTACrACTGCACAAAGA
TTTCGAAATTAAAATTTCGACGCCACCACGAACAATTCkACCCAACGATTCCATAACTAG
GTTGCGATTCACTATCAATTAGACACTGAGACTGAAAATTTTGAATCCTAATCCTAAATT
TCCGATCAGATCTAGAAGAATCTAGGTAAAATTTCTACGAAATCCCTCAAAAAACATACA
GATTCGAGAGAGGAGAAAGAGATATATTTAGAAAATTCGAGAAGCTTCGACAGTATCTGA
ATCGCGTCCCCAAAACGGAGCTCGGAGCATAGAAACGATTACGAGAACTTGATAATTGCT
GCTACCGAATGATGAATCCGATGATCTTTGATCAAATTTGCAGCAGGGGAAATCAAAGAC
AACGACACGAACGGTCTTTCAAATTTCGAAAATTTCTTGTAAGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 103>:

GNMCG08F gnm_103

CCCAGTTTGCTTTATTTTGTAAATCGCTTGTGCTTGTGTGCGACACCTCAACTTGAGAGT
AGTATGTTATTGAGATGACGCAAAATTTATACATTCTTATGTTGTACCTGTTATACTTTC
ACCAGGCTGAAGAATTAAGAAAATGCCTTTGGGAAAAAAAATGTACCAGCAAAGGGTATAT
GTTGGGAATGCGGTATTGGCATCCATTCACTGAGGAAGCCATTGAACAGGTATGTTGAAT
ATGGTGTTTGGTAGTATCTTGATTTAAGGCTAAAACACAAAGTTTTCTTTTCGTATTTGC
ATCTTCAAATATTTGCTTACATTTAAAGTAAACCACTACATTTTGTGTTTTTATCAAACA
GCATTTGCAAAATAATGATTGAAGTATGTGTGAACACCTGGAGTTTGCACTTTGTGAGTC
TTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 104>:

GNMCG09F gnm_104

AGGTCGGTATCCGTTTCAGAACCTGGTATTTAAGTGGCAAGACCCCAAGCCCAATTGTAA
TGTTCAGTATGTTGGTCTGAGCAGCTGGGATAAACATGTTGGATATAGAAACGTGAGTGT
GTTTCCTGTGACACATAATCATATCTTGCTGTGGAAGCAAGTGGATTGCCGTGAAGTTAG
AGGAGATGAGTCTGGTGACGAGAAAGTTGTGGAGGAAGGGACTGGTTATGATTATGAACA
ATGGGGACTTGGGAATTTCTTGGAGAGTTGGCAATTATCTGACACAGTCTTCCTTGTTGG
TGAAGAGGAAATGGATGTCCCTGCTCACAAGGTTATATTACAAGCATCAGGTAATTTTCC
TTTGAGATCATCTGATGGGGATGTCATTCAACTTCGTGGAGTGTCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 105>:

GNMCG10TRB gnm_105

GAACGACCATTATCTGGAGAATTTCATGCAGCTTAAACGTGTGGCAGAAGCCAAACTGCC
AACCCCATGGGGCGATTTCCTGATGGTGGGATTTGAAGAACTGGCAACCGGACACGATCA
TGTCGCGCTAGTCTATGGCGATATTTCCGGGCATACCCCGGTACTTGCGCGCGTCCATTC
CGAATGTCTGACCGGTGACGCCCTGTTCAGCTTGCGCTGCGATTGTGGCTTCCAGCTCGA
AGCGGCATTGACGCAAATTGCCGAGGAAGGCCGTGGTATTTTGCTGTATCACCGTCAGGA
AGGTCGTAACATTGGTCTGCTGAATAAAATCCGCGCTTACGCACTGCAGGATCAAGGTTA
CGATACCGTAGAGGCTAACCACCAGTTAGGCTTCGCCGCTGATGAGCGCGACTTCACTCT
TTGCGCTGATATGTTCAAACTCCTTGGCGTCAATGAAGTCCGCTTGTTAACCAATAACCC
GAAAAAAGTCGAAATTCTGACCGAAGCAGGGATTAATATTGTTGAACGCGTACCATTGAT
TGTAGGTCGTAACCCCAATAACGAACATTATCTCGATACCAAAGCCGAGAAAATGGGCCA
TTTGCTGAACAAATAACCCTCTTGCATTGTGTAATTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 106>:

gnm_106

TCATATTCTTCAATTTCTTGCTCCTCAATGACAACGATGGTAGGCTTTACACTAGGAGAG
GGACGAAGCAAGTCCTGAGCTTCTTCCCAAGTGAGTCTCAGCTCCATAGATTCTTCACTA
TGCAAAAGAAGTCTCTTATTTTTTGCACCAATGGTTCGAGTTCTCTTCTTCTCTTTAACT
CGTGTAGGATCATCACCTATCCTGCCCCCGTTAGTCTCACTGTTCAAATTCTCAGGCATA
CCATTCAACTCTTTCGGTATTAGTGAAATACACGAGGAACCATTTATGGAGGGTGGGTTT
TCTGTTACACCAGACGATGATGTGTCCTCAGTTGATGTTCCGTTGGTGAGCCCACAACCC
TATTTATAAATATTGTAACCGGATAAGAATGGAGCTAAGCAGAAAATAAAAACCAGCACA
TTCCTACAGAAACCAGTTCATAGAAACCCCAACCTGCATGTCTCCAGCATTAGCTGCCTT
CCTGGAACCCATGATTAGTTTTCCGCCAGGATCAACCCGACTGAAAGTTACTGTAGAGGT
GAAAAACACAGAAAACCAACAATAGTTTTAGAAAATGGTTCATGAAAATTTGATGTTAAA
ACCAGCAAATGCTTGAAGCTTTAGCTAAGACATGAACTATATTAAAAGTACCTGTATCAC
CAGCCTGTAGCATCATGGACTGTATGCATGGAGTGACACCTTCTAAAACATACATTCTAC
TATTGTTATTGGGCCAATATCTGAACTGGAACGTCCACTCCCTACCCCTCACATCTTGGA
TTTTCAAAGGAATGCTTCGGATTGACTAATCGGAGGAAAATATGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 107>:

GNMCG12F gnm_107

CCCACTTAAATTGAACTAATTATGTGTTTGCAAAAAACTTAAATACCACATGCAAAAAGT
TTAGTTTTATTTTAAACTTTTAAGCAATTATGAGCTACTTCTCAACTGTCCATTTAAAAT
GACATGTTATATGTTCTTTTTTTGTTGCTCATAGTTATGTTATAATTGTTTTTTTATTAT
TATTATGAGATTGTATTAAAAGCTCAAAGAGCTAATGCTATAGTTTTTTTTTTTCTTTTT
TTGTCATCATTTTAAAACGAGAAGTGTAGCCAATGCTATAGTTAAATATTATATTTAATA
CTACACAAAAAATCAAGGTTATTCAATTCAAAAGAAAACCACAATGGACAATATATGCCA
CATTTGCACCTGAGAAATGAAATACATCCATGTTTTCAAATTTACATTTAGCCCCGTTAT
AATATTAATTACATATAGGACCCAATTTTGACGTAAGGTGAATCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 108>:

gnm_108

GTTGTCTGGCATTACAAATTAATGGTTTAGCTGTCAAATTCAAAAAACATGATTTTATCC
ACAATGAATCTAGTAACAATCTACAACAACAACAAAAAGAATCTAGTACTAAAATTGGGG

TCAAAATCTATTGTTAAAACTTAATCCTCTTATTTGAAACTTCATCTTATCTTAATCCTC
TTATTGCTCTTTTAGTTGAAACAACTCTCCCACTTTTGGAATTTATAAATAAATTTTGCA
AGCTTCACATGGAGTATAGTGTGATAACCATATAAAGTCACATGCGGCTAGACTTGAGAG
TCGACACATATGTTTATGTGCAATGTATTGGTTGGGCTTCTTAATTATGAAACAAATGGG
CTTTGCAATAACAAGTTAAGTTTCTCGATCAAGCTAAGCAATATCTCAGCTCGTGTGTTG
ATTGTTTCTTTTCTTGGTCAATTCCATCAAGCTATATTTCTTCTAGTCACGGTTTCGTAC
CGTTGCCTCTATCCGAATCCATGCAACCTCCCCAACCATATATAACAGATAAGAGATTTG
CACAAATGACAGCGAAATGTGCTAAACTCGTCTGGCGTTTCCTAAGAAGACGACATTATT
GTGTGAATTGGAAGAAGCGTGATTAGGGAAACTTGACGTGGACTTTTTGGGCTATTGACA
AATAATAACCAACTTTGGCCCAAACTGTTCGTATTAATTTGTGGTTCATTTTGTTTTCTA
GTTGCATCTTTTCTTAGCCTTTGTCCCCTCGGTTTAGCCGCTGTGAGGTCGGGACCGTTG
TTAATTATTGTAACACCGCATAATTACATAATAATATAAACTCGCAAAATAAAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 109>:

gnm_109

TGAACACGTAAGTCTACAAGTTCTAATTTAAAATCACAGTTTTTCTTTTTATATTTTAGA
AATTTTTACGGACGGAGATGGCTGTGGAATGTGGATGTACATAATCTATAATTTTATTTT
ACAGTTCTCCAATAACATTAGGTGAAATTTTTTCCCCGAAATTTTCGACTTCGTGAAAAT
TGGACAAAAAAAAGTCCATAAACCGTTAATTTCGTGTTGTGATATAGATTTGTGGGTCGTA
AATAATACTAGCAAAATCCAACAAAACTTTTGTTTTCTTGTGCTTTTTTCTCTTTAGATT
TTTTTGTGTGTGTCTAATTTTACATATGCATGCCCTACAGATAATTCCTATTTATGCATC
TACAGAACTCAATTATCGTCTCAGTGATAATAAATGCAGTAACTGTAAGAAACGGACGTA
TCAATTTCTTTTCCTGACAGATTGAAAGTTGTCTTAGAGAAATCGGTACTTATATAATGA
GCATATCATTTTCTCAGCGTGAAATCAGAATGAACCATTTATGATTTTACCCACTATATA
TTAAAAGAGTAGGTTAGGAGAAAATTGATCCTACGTGGTACGTATTAGCTAAGACCAATT
CAAAAATATGAAATTCCTCTAATTTATCATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 110>:

gnm_110

GGATGTACGATTAGAGAGAAGTAGGACCATGGAAGTTAGGGAAGTAGGAACATGTCATAG
ATAAGGCCCACCCCAAATATGTGGTCGTGCTTCATCTTAGAACCTCGTGGTGTTTGGCTT
AGCTACGTCGTCAAATCATCCATCAGAATCCAGTTTCAGTTTTGTCTTCCAATCATGTTT
ATACACGTGTTCCTATCGTCTTTAAAGATATCTCACGTCTCTTACATTGCCTAGTTGCCC
TAATAATTTTCTGCCGGTGCGACTAGTTTTATAAGACTATTTGTAGTTTGAATGTGAAGA
TTCACAAAATGGGTCTTCATAAAAAGTTAAAAACCCTTACCAGTTTTCGTGATTTTTCTA
TTTTGATGTAAGTTTCTGTGAATCGATGTGATAATATGTCATGTGAGTCTTTTTTCTCCG
GCTGACATAGTAACATGTGATTTGATAAGAAAATTATTTTAGTATCGTGATAAATTTTGT
GAGGTGTTTAACTTTTTGTTTAAATCTTAATGCAAAAACTTCCAAACCCTAGATTTCTTT
TTTGTAATTGGTTTTGCATCAAAACACAATATCCGAATGTAAAATATTGAATTAGCTAAA
CAGTAGATGTCCACTAGATCATGAGTAGGCGATATACATATAAATTTCATTAATTCAGAG
AGAATAATAATTAAATTTTGTAAAAAGGTGCTAAGGCAAGGTCTTAATACAAGTCTAAAT
TATTCAGATGAAAAATTCATGTTAGGAAATAGGTTGGACCATAAGAGGATGGTGCTATCA
ATCTATTAACAAAAGTACAAATACCCTGAGCTGTACTGCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 111>:

GNMCG15F gnm_111

CCCTGCTCTTCCGTTCCATGTTTCTGCACTTTTTGTCCATCCCCATTCCCACATTGTCAC
CGGTGCTGGTAACTCCCTTCTCTGTGAATCATACGTTGCTAATAATTCTTCTACACTCCC
GAGCGGAACTAACGACTGCCCAACCAGAAAAGAAAAGAATTAGAAGTGAAGATAACAGAT
TCTTTTGTGGAGCTTTAACTAGATGTAAGATGAAAAGTGTTTGTTACCTGTCGAGCTTCA
AGGTTTGAGACAGCCATAGCACCAACGTATGGAAGACTTTCCACAACAGCATCTGCCAAG
TCAGATATAAACATAGGTTCTGTTCCTAGAGCAGGTACTCGCCCCCAGTTTTTGATACCA
GACTTCAAAGCCAACTCTTTATACTCAACATCTATCTCCTCCAGAGTTTCAATGTGCTCG
CATCACAAACTGTTAAAATAGAAACAAACGTGAGTTTCAAATAACCAnGAGAGAGAGAAT
TTGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 112>:

gnm_112

TTAAAAAGGGTAAGTGGATCCTGACCCTGTATATGCTGAATGAACTTTGTCATTTTCTGT
TAAATTAATTTCGCTGATGCCATCTATGCTTTGATGATGACGCAGTTAGAAAACAGCAAC
CTAAGCAAAGAAATCCCAGTATTCAATCGTCTTGTAAGTTCTTAACATCTTCTATCGATT
TGGGGATTATTTAATTTGTCATTTCAAGACTGATTTCTCTCCAAGCCCTCACTTATTTT
GTCTTGTGTACAGTTGAAGGAGGCTGCTAGCTTCCTAACATCCGGATTGATATCCCCAGG
AAATGAACCGATGTATGAATTACATAGTCATGTATCTTAGGATTGTAAACATCTCCAGGT
TTATATTTCCAGACTTCTCAATTATTAAAGCTTTTCACCTCTAGTTCAAGATTCCAACAT
CGGAGATCGAGTTTCAAGGAGCTTCAGTACATACGTGATGGGGACAGCAATGGGGTGCTG
CACTTTGTGGGTACATCTTATGGTAGTCATCAGTGGGTCAACCCCGTTCTCGCAAAGGTT
AACCTCACTTTTATCTTACTTTCTTTATTCATATTGTTGGAAATCCAATTACCATGACAA
GGAATTCTGCTGGAGAAAAATATTTCCTTATTTGAGTTCTTTATGTTTTACAGAAAATCA
ACATTACATCGAGTAGTCCCACATCCAGATTCACTGATCCAAAGGCTTTGGCTTCAAAAG
CCTATGCGGTATGGTCCACCCAAGTTCGCTCGGATTATATGACTAGAATTTGGCTTGAAC
TACAAAATTGACGAAGCATAAAATTAATTGAAGTGAACCTTCTTTCCTCTTAGATACAGT
ATTTAACCATATGATTTCATTTTTTTGGCACCAGGGTACTTCCTTTGCAGGGCCTAGGAT
GGAAGACGGCCATATATCATCCTGGTGGGTGGTGGACTTAGGCGAAGAACATCAGGTCTC
CTCCATAACTTCTCTTTCTACATACTCTGTTCTCATAAAGACACAAACGGTCTAAATGCT
CCATATGTAACCCATACTCGCAGAAATAAGAGAAAATGTATTTGAGTAAAACAACATTTA
CTTTAAGTTCTGAAAATAATATAACACGGTGAGGATTCCTGGTTGCAGCTTATGTGCAAC
TATTACACCTTCAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 113>:

gnm_113

ACATTCACCAATGGAAGCTAATGTTGGTTTTTAAAATACTCGAACCATATTATCTAGAGT
CTTCTAGACTATTCTATCACTTAACAAACATGCAGTTTGATTACGAGTTTTTCTCGTTAC
GGATTTAGTGATGAGCTAGTAAATGATTATTGATTGACAAAACTTATAATATGGTTAATG
TTTTCCATCTACCATTTACGAAAAAGGTAACAAATTTTTGTCACTAATCTTTCGATAAAC
ACAAGTATGCAATTTTATTTTTATTTTTTGTATTCTCTACATATGCTAAGAATCTTAATT
AAAACAATAAGACCTTACACTAGTTTTGATTATTTAGAATACTTATCCACATCCCTTACT
TTCAGTACAAATGTCATCTTCATTCTTCCCTAGACATTATTTAAGAAATATTTACGAAAT
TTTACGAAATCAAATTAATAATTGTCATTGAGACATTTAAAAGTTTATCACTAAACTAAT
TCCCTAATTAGGGATAAATTTTCATTTCTTATGACATACAAACAGAAACGTGAAACACGT
AGGCCCTCTTTGTTAACCTCCTCACATTAATAATTTGTCGTAAACATCCTCACATTAACA
CTTCGTGAATGTTTAGTTCTAAAGAGAAGAAAAACTTTAAATATGTTTAGCATATATTTA
GTTAACTTTGTTCTATGAAATTTAAAGTAATTCTTTATGTCTTATGACATTTAAAAGTTT
ATCACTAAATTATAAGCGATTTGATCTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 114>:

gnm_114

TCATTGTGACTAGCCAAGTAGCCATGCTGGACACTACCAAAGTGGTCTGAGCCAAGACTT
TCTACCTTTTGTTTTTCCTAGTCTAGACAAAAACTTTGCAAATAAAGTATATTAGTAGGC
TGAAATTTTCCTTGTTCATTTATTTCATCATTCTACACAAACTAAAAAAAAATAAAAAAA
ATAAAAATAAAATAAAAAAATTAGGAGGTTTAGTAAATAAAACGGACAATGAAAAAAAAC
ACAGAAGAGAATGATTTATATATGTTAATAGTACTAAGGAACTTTGGATCCAACAGGAAA
ACGTAAACTGTGGAACACCACGATCAAGTACTAAGGGGTTAATCCTTTTTGACTCCTCAA
GCGCACCATGAACACTTTGATGGAAACAATAAGCAACTCAAGAGATTAGAAGATGGGAAA
GTTTTATCACTATATCAATGTATATTTGTTACCAACTCACATAGTTAAGCAATCCGAAGA
TTGTGCGACGGAAGTGATGGGCCACACGAAGGATCAATGAACACTTTGCATGAGACGATG
GCACAATCTCACTGTTCGGAATATCAGCATGATCATCTACCATCTTTAAAATCTAGGATT
TGCTTAAGTGATTTTTTTCTTTCTTAACACTTCGCCAAATGGATCTATAGATCTAAGGTT
TCTTCTTCTTCCTCCAAGGATTATATGTGGGTTTTAGTACTTCTCAAGTTATCTCGAATC
TGGTTAGTTTTACTAACTTACTATTTTACTAGCAAGGAAAAGTCCAATAATACGACTTGT
GTAGCCAAAAAAAAAAAACACGACTTGTGTAAATCTGGAAATGACGATAATACCCTCGTAA
AACCTAAAACTGTGAGGAGAGAAGAAGGTGCCCTTTTTGTCCCAGCAAGAATAAATCACG
TCGGCCTTCTTTGCCCTTCTCCTTTGTCCAGATTTTCTTCTTCAACCTCTTTCTCTTTGC
TTACCCGCCAAATTCCTTATCTTTGAAATTGCCTCATCCCTTTCGCGTTTGGTGATTCTG
AAGATTCCGCTTCATATCCTTTTGATCTGTAAGTTTCGATTTCCGATCTCCTTCGTTTGT
TTCCTGTCAAATTTGGTTAGAAATTGTTCCGAGCATTGAATTTTCTCGTACATGATCTCT
GTTTTTAATCTGTGTTTGTTTGATCAAGTTGTGAAATTTCGAATTGGGTTTTGGTGGCTC
AAGGGTGTTTTGTTCGTTAGCTAAATCCCCAACAGAGAGCTTTCAATTTCAGAGATGGTG
GTAGTTGTAAAACTTAGGCTAAAACATTAATCTCTGCTCTTAACTAGTGTTGGTTTGGAT
TTTTGTTAGAAACAATGATTGGAGCATAAGTTTTTATAGAAGAATGCTTCCAAGTTAGTT
GCTTTTGTGCTATATCTTGAGGGCTTATGGTTATACAACTTATAGCTCTTTTATTTGTTT
TTTGTTCTCACTTTTCTGTCAAGGTCTTATGTTAGTGTTCATACTTTGTTTTCTTCTTTA
CAGGTCTATAAAAGACACTACTGGTTGAATTAGAATCTGTAAGAGATATTAGTGTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 115>:

gnm_115

AGCGATGAAGGCACTACTCTTTTGCCCATCTAACTATCTAAATAGGCCTAGTCGAGGATA
AACCTTTGGTTCTTTTCGTTAGTTAATAGGCCTAGGATTTGTCTTGTACTAATTAAATGT
TGTATAATAATGTATACATATATATATATATGGTTCTTTATAGTTTCACGCTGAGACATG
AACATTAACTGAGACAACTTTAAACCTTGAATATAATTGAGCTTGTTATACGTGTCAGTT
TCTTATTACATCAACTGAATTTATTTATCACTGAGACATTTATTGACTCCAGTCATAAAT
AGTGCGTATATGTATAATTGTGTAAAAAAGGTATGTAAAATGTATGTTGAGAAACAAAAA
AGGTAATATGTGTAGAATGCTAAAAATGAAAACAAAGTACAAAAAATCAGAmCTTTCATT
GGTGTGGCATAGTGGTTACTGGCTCGGATCTACTAGGACGAGTACGATTTCGGCCCACGT
ACAGATCTAATATCACCGCACCAAATTAACAGATTGTTGGAGTTTGTCCAATTTTCAAGA
AGTAGATTCAAACAATACTTTCAGAAACGGAACAAAAGATCTAAACGATATTGGAAAAGT
CTACTGTTGTAACTTTCCTCACAGGACCACATCCCCATCTCCGTCAGTAGAAGAAATTCC
AAAATAATAAAAATAAAAACTGAGAATAATTGATATGTCAAATAAATTAGAACTAGCGAT
ATACTGCAGTGAATAGTAGATTAAACTATGTTAGAATTTGGATGATTCTACATAAAACCC
CAAAGACTAGTAAATTAGTCATGACGCATTAGTGGAGAACATTTTTCTACATTTAGGAAA
GATCGAAATACCACCATTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 116>:

GNMCG19F gnm_116

CTGTTATCGTTGCGGGTATTTCTCAATCTCTCTAATTTCCTATTCTAAACTCCAAATTTC
GTTTGATTTTTGACTAAAGTCTCGATCTTTTCGTGACCCTCTTCTTGATTCTCTGTTTAG
CTCTTAGTTTGTTCATGTTCTGTTTTTTTGACTACGTATATGGTTTCTTAGTGCGAATCT
TGACTCTTTTAATCTATAAATAGGGAAAAAATATGTGACTTTGGTACATAAAAGGGAAAA
AATTGAGACTTTGGTTGTAATGATTTTGTTATAGATCTGCGTATGAGAGTTCTCTATTCT
GTGAACAATTTCATAAGGACCAATCTGGTTGGAGGGAATGCTATTTGTGTAGCAAGGTGC
GTTTTTTGAAACTGTGTGAATATGTTTGTTTTTTCTATATATAGAGTTTAGTGGTGATGT
TTTGTTGTGCTGATTGAGAATCTGTGAAGACAGAGACTACATTGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 117>:

GNMCG20F gnm_117

ATCCCCCATCTTCATCAGCTCACTTCTCAACGCTTCGCTCTTCTCCGCTAACGTATATCA
GCTTGCAGTTGGCTACGTGTCTTTAAAGCTTCAGGGAGAACAACTACTGCTCTTTCTTCT
TGTTCTGCGACTCCACTTCTTAGCTTTAACTGATCGTAGTAAAGAGCGTGAAGAACAATG
TTTACTGGTAATCTCTTGTTCTGTGAAGCGTGAAGACGTGCGTCGTAAGAAAGCTTTAAG
GGATCCATTGAGCTACACACTTTTTCCCTTTCGATCTCGTCTAGATTCGGATGAGCTTTC
AAGAAGATGTCTATAGCTCTGTAGAGATCGTCGTCTGATTTTCTAGCGGATTTCGGGACA
AGATTCGCAATCGCGTTGAATTTGGAGATTGTTAGGTCTCCGTAAGTAGCGATCTCCGCT
AAGTAAGAATCAACTGTTTTAGCTACTCTTTGTAGTGAAACAGAGCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 118>:

gnm_118

TTTTTTTTTTTTGGGTGAATTTTTTTTTTTGTTTCAATTTAATTTATCGATGTGAAAAAT
TAAAACTTTTATGGGTGAGATAGAGAGAGAAAGAGGGAGAGAGCATTCAAGTGAACGAAA
CGCATAAAATGCATGCACGACACTTGAAGACACACACAAAACTCGAAAAGTAAGAAAACT
CGCAGAGATTTAGAACAGACACAAAGTGAAAGACTTTGGTTTTTTTTTGACTTTGTTAAG
ATATGTTTTTTTGGTATATAATATATATAGAAATGAAATTTAGGGTTGGTAGGAATCATA
TATTTTGGAAAAAAAATAGTATGGTGACGTAATTTTAATATTTGGTTATATGTATTCAAC
TAATTTATAGGTATTTTCCTTTCTACAGTTGGGGTATTATTTATATAAGGAAATATTGAT
TATTTCATCAAGAAAAGAAAGAATTATTCAATAGAAACATATATGTTTCTTTTTGCAAAT
CATAAATATATAGAGTGCATGCATGACACTAACACACACATGCACAAAAGACTTTGAGGT
TCTTCTTTTTCTCTTTTGACTTTCTTGGTTTGTTATTGTCAATTACTCTAAGAAATCATT
TTAATTTAAGTTTGTAAAAGTTATAAAAATTATCCTAAGAAAAGAAAATAATAGTACATA
AATTCTACTTATCTAATTAAAGATTATAATAGAAATTTGCGATCGCGTACATGTATATGC
TATATACTCTACCTGTCGTCATTCTCTGTATATGTATTCTAACCAAATTTGAGTTCCGAA
TACCCTAAAACTTAGAGTGGATTGAGACCGATAGATAAGTAAAAATTGACGATTCATATC
AAACATGTAGTCTTATGGTAGAATATATATTCCAAAATAAGATACCAAATTTATAGAGAA
CTTGCAAACGAAATGGGAAGAATTGGTGGAATATAAACTAAAAATTCATTCTTGCTTAAA
TTGAATTTTTTTTTCCTACACtGAAGAAAACAAAATTAGTttAtACCATCGACAAAAAGA
AATATGCAAAAAATCAACACAATATATTTTGTAGGATTTGTTTATTTTTTGTTAATACTT
TTGAAGGATTTGTAGTTAATTGAATATATATATATATATATAATATATTATGTTTTTTTT
TTTGCCATTTTACTACATTTAACCATAACCTTGCTATTTATGGAGTCCAATAGTCCATGC
GCATGATAAACATACAGTATAAGTGTTCACACGATTTTATATATGCATGTGATTTTCTGT
CAAATAACACGTTACTACCCAAGAATATATCATCTATTTGTTCTAACTTTTACTCATGCA
TGCTCTATTCACTTCGTATTTCCCATTAAATCTTTAATCTTTTCTATCTAATTAGTTCAA
ATTTAAATCTAACTAAAATGACACCATATCTTTTGGAATCGCTCTCTTTTGGGTGGAATC
TTCTATATTATCAACGAGCTACTATTAAGTTACTACGTTTTTTCACTCCCTTTTTTGACC
TTATATATAGCTAGGCTTGTAACACCTATCGAGTAATTGACTACTGTTGGAACGAGTAAA

AAACTTATAAGTTTTAACTCAGTGTAAAATGTCGCCGTCTGGGTAAAAAGAGTGGTAATC
TATGTATTAACCTAAATTTCATTATACACTTATGGAATTTTCTTGTTGACAGCAAAATAT
ATAGACATAATCCATTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 119>:

gnm_119

TTGTCCAACTATCTACTATACTTATGTGAAAAATACATACATATGCCCAAAATTGTTATC
AAACCAAAATGTTCTGGAAATAGCCCATTGGACATCTATTTATAAAATTGCATACACTTT
AGCTAAAAAAAAGTACTTCAGTTTGTTGTTAGAATATTCAAATTCAAGAATTATTTTTGA
AAGAATTGTGTGCAGAATATCAAAGAAATTTTGAAATAATTCAGAATTGTGTACACAATA
TCAAAAAATCCATTTCGAAAATGCTTTGTACACTTGTGTTTTGGCTTGTATTTTTATTTT
AAAAGTATGATATGTAAAATAAATAGGAAGTGTAGGATTATTCTTTTTCTTGTCTAATAA
AAAATAAAAAATAATCATATGCATTTATGAAGATAATTAAACTTTTAAATACTTTTTAAT
ATTTCATACATATTATCCATTTCTCATTCCAAAAAAAGAGTTTAATTCTCAGTTTCAGAA
TAAAATGTGGGCCTTATACAGATTTAGTTGGCCCATTAATGTACAGGTGACAATAATCCA
CCAACTCGTTTCTCCTGACACAAAAAATATCTCATCATGTCTTCTTCTTCGTATTCGTGT
CTCTCATTTCCTTTTTTGACTCTTCTTTCCAAAAAGGATTAGATCTGACTCACTATTACG
TGTCACGCACAGTTCATTAGGTACGCTCGGAAAATTTTATCCACACATCTAAATATCTGA
TTTATGATCAAATCACCCATTTTTATTTTTCCTTTTGTAGCTTCTCAAATCTTTTGTCCT
TAATCGATTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 120>:

GNMCG24R gnm_120

CAGTCAGGTTACTAATAAACTTTCATTATCCCTTCTTTGTTATATTACTAATAGACCAAA
AACATTTCAGATACTCAGTGCCGATGTAGAGCCTAAGAAGAAGCTAAAGCACATTGTCAT
GGCGGCTACAAGGTGAGTCTAAAAAACAAGTGTTCTCTTTAATGATTCTTCCCAAAATGA
TTGTTTGTTCCTTGGTTAATATATAGGGAACAGAGGTTTGAGAGGGTGACTAAAAATCTA
AAAGTGGCAAGAGTGTTTAACACATTGGTAGAGGAAATGAAAGCAATGGGGATCGCATCT
GTTGATGACTCAGAGTGTACAGAAGTTATGGCTCCAGTTGCACACAAGGACCGAAGCCCG
GTTCTACTTCTTATGGGAGGTGGTATGGGTGCAGGAAAGAGCACTGTGCTTAAAGACATT
CTCAAAGAGTAAGTAAAGTATCAACATATCTGTCATTAATCAGTGTTCTTATGCATTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 121>:

GNMCG25R gnm_121

ATATAAGAGTTAATCTTATAAATAGTTTTCTGAAACTTAATATACTATAACAATGTAAAA
GTCGTCGCTTTGTTATTTGAAGTGAAAATTAAGCAATGTTATGATATTTTTACTAATTAA
CTCAATATGAAAAACAAAAATCCTCTTAACTAAAACAGAAACATAAAAGACGACTTAGTT
TTTGCTTTAGATCTAGACTCATAACTCAAAAAACAATTTCATTATAAACTTTTGTAGATC
TTACAATTTTAAAATAAAATGTACATTAATGTTGAAAAGCAAAATCTTAAATTAGTGTAT
ACTACTACTTTTTTTTTATCACCGTGATAGATCATTAGATCCTTAACCTCAATCCCTAGA
GCCTGCTTATTGCCTTTAAGCATTGTGCAATCACTACCAAACACACTCAAAACTAAATAA
ATATAATTTATAACTTATCAAATAAAATAAATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 122>:

gnm_122

CCTCGAATTTGTTTTATTTTTTCATTAATCAGACCAGACACAGTTGGGATAAAATGAAAG
GGGCTTGAGGAGTGAGGACGGAGAACCACACGTGTCCACACAGTTGTGATAATTTTTTTA
TTCAACAATAAAATTGCAAGAGACGAGTTTGGTAAGTAAATCCGGTTGAACCGGTCCGAC
CGGTATTGACCGAAACATACAATCTTTTATAGTCTTCACACATTGTTCCCAACTTTAAAC
TTAGAAACCTTAGATGTTGTATTCAATAATTGTCAAACCACAAGTACTGACAGATACAGA
TTTAAAACATTTTTGTTTTGATCAATTTAACTAGATCTGTTCATTCACCTGAAAACAAGT
CTCTACAGAGTTCTCCATAAAATCTTGAGACAAGTTCAATGAAGACAGGACTCTTAAGAT
TCTTCCAACAGAAGAGAAGTTCCTCTATGTCCATTAAGTCATCTATTTTCCCTTCTTCAA
CAATCAGATGAATCAGATAGTTTTCAAAGCTTCTACAAGCATCTTCCACAGCATTGTCTT
CAAATGTATCTCTTGCGTTCAGCGATTTCCTGGTCCGTGAAGAGTAAGGTGTCGTGATGG
GTGAAGTGAAGAGCTTCTTGGCTGTTGCTGGCGTAAGAGGTGATTGCATAAACTTGGAGT
AATCATCATCGTTCACACTAACTGCAATGGCAAAATAAGAGAACAAAGAGATCAAGAAGC
TGATAAAATTTCAATGTTAAAACAGATTTTGTAGCGAAGTTGTCTTACAAGAGGAACTTC
TATGTTTGGCGTTGCTCATCTTAAGGTTCTTGCTTGAATTGAGGAAACAGAGACAAGAAC
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 123>:

gnm_123

CCAGTGATCTTATTTCATTATGGTGAAAGTTGGAACCTCTCACGTGCCGATCAACGTCTC
ATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTATTCGCGATAAGCTCATGGAGCGGCGT
AACCGTCGCACAGGAAGGACAGAGAAAGCGCGGATCTGGGAAGTGACGGACAGAACGGTC
AGGACCTGGATTGGGGArGCGGTTGCCGCCGCTGCTGCTGACGGTGTGACGTTCTCTGTT
CCGGTCACACCACATACGTTCCGCCATTCCTATGCGATGCACATGCTGTATGCCGGTATA
CCGCTGAAAGTTCTGCAAAGCCTGATGGGACATAAGTCCATCAGTTCAACGGAAGTCTAC
ACGAAGGTTTTTGCGCTGGATGTGGCTGCCCGGCACCGGGTGCAGTTTGCGATGCCGGAG
TCTGATGCGGTTGCGATGCTGAAACAATTATCCTGAGAATAAATGCCTTGGCCTTTATAT
GGAAATGTGGAACTGAGTGGATATGCTGTTTTTGTCTGTCAAACAGAGAAGCTGGCTGTT
ATCCACTGAGAAGCGAACGArACAGTCGGGAAAATCTCCCATTATCGTAGAGATCCGCAT
TATTAATCTCAGGAGCCTGTGTAGCGTTTATAGGAAGTAGTGTTCTGTCATGATGCCTGC
AAGCGGTAACGAAAACGATTTGAATATGCCTTCAGGAACAATAGAAATCTTCGTGCGGTG
TTACGTTGAAGTGGAGCGaATTATGTCAGCAATGGACAGAACAACCTAATGAACACAGAA
CCATGATGTGGTCTGTCCTTTTACAGCCAGTAGTGCTCGCCGCAGTCGAGCGACAGGGCG
AACTcGmAGTgAGCGAGGAAGCACCAGGGAACAGCACTTATATATTCTGCTTACACACGA
TGCCTGAAAAAACTTCCCTTGGGGtaTCCACTTATCCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 124>:

GNMCG27R gnm_124

CAGTAGAGGCCATACCAATTATCGGCCTTGCTATAATGGATTTGGTGGAAGGAGTCCGAT
AATCTAACTTGCATCTAATAAATTCAAACTTGGCAGCGAGCCAACTTGCATTGAACCTCA
AACATTATGCTATTCATTCTTTACTTAAACTTTTGATCTGAGAAATTGTTTGTTTTTATG
TAAGTTGGTCGCCTTTATTACAAAAGATTTTGTTCTTACTTGATAGTTACTATCTATTGA
AATGAAACAAGTTCTTATATCACTTTTATGCAGTTTGTAGGAAATGCATTTATGAGAAAA
TCACAGAGGATGAGATAGAGAGCTGTCCAGTATGCGATATTGACCTCGGGGGGTACCCAA
CTGGAGAAACTAAGGTAAGTTCTTCTTCTTCTTTATTCCTTACACAATTTTCTCCTCGGT
CTTGGTTTAGCAGTGATTCCTTGTATAGACTGTTAGAAGCCTTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 125>:

gnm_125

TAATTGGAAACGCGGCCAAGAAAGTGAACACGCTTTCTCTACACGTCTTTAACTCCACAG
CTACTTATGACTCACCTGCTTATTTTAATCTCCTCAAAAGTCTTTCCTTTTTTTACAATT
TTTTCCAAAGACTCAATAATTGTGGTATGATATGGAAGAGAGCATTAATGGCGTATCTTC
AACGCCCAAGATTTTGCATGTGGCTCTATCGTGATTCGAGTTTTGATCCATCTCTCTAGG
TATAGAAAGAGAAAGAGATCAAACCAACCTTTAACAAACTTATGGACGTAACTATATCAC
TTACAAGCCAAGTCAATGATGAAGAAAACATAGACTGATGATGTGAAGAAAAAAAAAAGG
TAGATAACTTGTGGGATTCTTGATGTTAAGTTTAGAGAAACAAAGTTGAGTCACTTCTCT
CTTTCTATGTATTCATCAATCTACAACGAGTAAATTAGCAACAACAAAAAGGAACAGAAC
AAAACAAAGATCAGAGGGTCTTTGTGTATCAATAGCTCTCATTGTTTTCATTCGGAAAAG
ATTCGAACATCGCACGCTGGTTTGAGACCATTTATCACATCACTCTGCTTCACACTCTCG
CACGCAATAACAATTGGTATATGAACCTTAAATCCCAACCAATCAACACTCAGTTTCCCT
CTCAAGAACACATCAACCAAAGCTTCAAGCGTCTTCTCTTTGTTTGTCAGCAATGTAGCA
TCAACATCATACACTTTGGATTTTCTGAGTCTTGTGAGGATCTTCAAGGAGGTAACATTT
CCCGGGTCCTGCTTGAATCCAGAAAGTGTCTTCTTTCCGAGGTTTATGTTCTCAGAAGAT
ATATCAGCTTTCATAGGACTGTAATATAGCACCGTCTTGTCATTATTATTAGAGAGCTGA
AGCACCGTGTTCAAGTTCGCATTCATCAGAAGATCTGTCGATGATTTGGCGATATCCAAT
CTCGAGAACTTGAGGTTTGTGACAAGCACCTGAGGTAGTATAGATTTGATTGAAGAGTTT
GCAGACAATCCTACCAACAAGACGATTATAAGGACAACAGAAACAAACATGCAGGTGCAA
GCGCAGCATTTTCTGAAACATCCAGAGGCGCATATTCTCTTGTCCTCCTGACCGATATGA
TCCACAAAGGAACCCGATTTTCTACTCCGATCGGCCTCTTCTTCCTCTCGAAAGCCAGAC
AGTCTCGACGCAGAAGGAGGCCGCTTAAAAGACGAAGCCTTTTTCGGGTTTTCAACATCA
TCAAACCTGTTTCGAGAAATGGAAGGGCTTGAGAATCTTGAACTCAGATCAAAAGAACCT
TTGCCATAGCTACTATCTTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 126>:

gnm_126

TATTTTTCCCCCATAATTTAATTCATGAAACTGACTTGGATAGTCCGAACCACTAGATTA
GATTCGCATCATACAAGTACAACTGGATTATAAAACTGAAATAGAAATTCAACTATAAAA
TTCAAAGCACGTAATGAACTTCTTCTTTTTTCACCTATTGTGTTTCCATATAATTCCACA
AATGACATTTTTTAACTGGTAGTGAGGATAATAGGATATGATGATTCTCAAATTTCGAAT
ATTTGTATATTGGTTGTTAAAAACATTCGGATAAGTCACAAACATATAAATCAGCATAAC
CTTGGAAAAAAATTACGTTTGAAATCTAGACTAATACATCCAATCCAATGATTAGTTTGA
ACTACATGCATAATTGCATACTAAATAATGATCAAGTATACTAAATTCTGGAGTTTGATA
TGATTAAGCGmAksTTAATGTTTCGGCCATGTGAAACCTCGTCTTAGAATAGTTGTCATC
ACGCGATGTTGGCTAACGTAACAAGAATCATCAATCTCGTACCACACATGTTGCACATGA
GAAACAAACAGCCGCAATATTCTTGATTCACCTTTCTTCTTTTCTCTTTTAACCAAAAAC
ATAAGCTGCAATATTCTTAATTCACACTCGGGACCAAAACATGTTAAAGAGTTATTGTTT
TGTCATTGGTATTCAAACTCGTGATCTTGAAGATTTTTTTTTCTCTGGTCACAACATCA
TAATCATGTTATTTTCTAATATTTATGTATACTTAGAAATAAATAATATAGTTAGGATAT
TTTTTAAGTAATTAATTAACATGCAAAGGATTTTGTAGGACGGCATGTAAGAAACAGAAT
CAACTGATAGAAACTGCAATAATGCCTGATACACACACACAGCTGTAATTGGGGCTCACG
TTCCCAGCTTGCAATAGACATTTTTTTGTTTATCTTATTCATAAAATATATAATTACAAT
ACTAATATCATGGCATCTCATTACCCCTCATATAATTAAAGTATAAAAAAACAATAAAGT
ATACCACATTTCTAAAAGAAAAGTACGCATTATGAACTTTATTAACTCAAATATCGAGTA
TCAGAGTAAAAATATGTCATATATAAGCCATATAGGCTTTTGTGAAAATCAACGGCATGT
GTTAATGTTACAGGAATGAATTTGGAATCTTTAAAAGGGAAAAAAAACAAAAAATGAAAC
TCACTATGCAAAAAACCATGTCTACCTAAATTTGGTCACAAACATGTTTTACGTGATTAT

ATTTGCCTTCATGAAGTATAGACCAACAAGAACGTCTCAAATAGTAAAGACAGAACGTGG
GTAAGTGACAAACACGGTTGCATGTAAAAGGTAGGTACAAACGCTATATCGACAACCAGA
TATGGTTGGTGTTTATATCTGTGTAACCTAGTGGTGCATGCTCAATGAAAGATATAACCA
AAAATAACACTTTTTTCCTTATGCTTAAGAAACATATCAGATTTGGTGATAACTTGAACT
AAAGACCCAAGATATGGATATGAATTTCTTACCTAAGTTTTTAAAGAGTCAAGAAGCAAT
GCCTTGTTAAAACAAACGAGCTGAAGTGTGCGTCTTTCCAGCATTATCATTTGTTGGAAC
GGGTCTCTACTTGTCTTTTCTCCTGATTCTGTCTCAAGATTCATATGTTAGCTTTTTGTA
ATAATTCTAGGTAATAAACAAATTATCTTAGCAAACAGAATTAAATTTACCTCTGTTTCT
TTGGTGACGAGCTTCCATGACCTCCTTGTTGGGGTTACATCTAACAACACTTAAGAAATT
TTTATGTGTCAGTGTAACATATTGTAAGAGATGTTAGTGAAGAACACAAAGAAGTGTGTG
ACAATGTTCACCGTACATACTCATTTTCGTCTGAGAGGCTCTTTGCAATGGATGATGAGG
TCTCATCTCCCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 127>:

gnm_127

CCCTGCCTTTGCGAAACTTGGATAATCGATATTCCTTTTTAAAAGATGTGATCTTCGAGT
TGGTGAATCTGAAATACAGAAAAACCAAGGAATTAGCAAATAAATAGGCAAAACCCCAGT
AATTCCAACAAATATGTAGATAAATCACAAATATTTCTCCAACTTCAAACACCAACAACA
GAGGAAACTAAGAGATACTGAAAGAAAGTGAACTAAAACTTAAGAGATATGATTTAGAAC
TTCCAAAAGAATGATATGAAACACTGAGTCAATGAACCTCCAAAAGACATACGCTTAGAC
TATAATTATTTTATGAATACAACTAACAAGGTCAAATGAAAATTCTTTGATAAAAGCATA
TATGCGTGTTAGCTGTTATTCCTAATTTAGTTGAGATAAACCCACCTCTAATGTTGGACC
TCCAGGTCGTTTCCAGGTAATCCCTAAAACGCAGAAGACTTTTAATGTCAAAAGGCACAG
TATCACCATCATAAAGTGACGAAATAAGAGAGTTTGAAGACTACCTCTTCTTTTTCCTAT
GGTGTTCTGTAGAAGAGCGACTCTCAGTGCAATCATTGCAATATTTCAGGAAATCAGGGT
TCAAACTCTCCTTTTGGCATGGCTGTTCGGCCTTCCAGTAAAAACTATCTTCCCCGTCAT
CAAGAAAGGCGGGCTTAGCTGGTTAAGGAAGGACAAGAAATCAAATTCATACATCTTTTT
ACTTGATCTCGTGAGGAAAGAAAGAAACAGGTGCACATATCTTATATCAGAAAAGATTCC
CTATAGTTCATATCACACCACATGAAATTGTGTAATATTCACTAAGAAGTGACATGCTAC
TTTGATCAAGTCATGTTTTCCATAAATTTCAGAAGGTAGTGGGTTGCATAGATGGTGATT
TGTGAATGAAAAGAAAATAAACCTTTTGCATAAGACATTACCATTCCATTCATCGTCAGA
GAACCTGCTGTTGTTGAAATCTGCAACGTCACAGAAGTAATTTCTAGAGTCGCTATATTG
TTTGTGCAAGTGATCACTGAAAGTTTGCAGTTTTTGCTTTCTGCCCCCATCTTTAGCATG
TATGCCAATTGGAGACCTATAAAGGCTGTCATCTTGGAACATTTTGCTACTTTGAATCAT
TGTGTCCTGTAAGAGGGAGATGAAAATATCCGGTCAGGAAAAAAGAGTTAGAAATGAATG
GAAGACAGCTAAAAGATAAGATGACGAGACTTTGTTACCACTTCGTTCTCAAAGTCGTTG
AGCCTTCCCCTGACATGTGATGTATCTGGTTGACCAGTATCCTTCCATGGAGAGGAGCAC
CGGTACACAAAAGTTCTTTCACATCACAAGTTAAATAAAATCACTGATCTATATCTTAAG
TGGTACATATTACTGCTAATGTAAGAGAAAACAGTATAAATAAATAAAAAGGAAAACAAA
CAAAATGCAAACAAGTCCCAAGAAAAAAAAAATACTCGTGAATGCTAATCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 128>:

GNMCG29F gnm_128

CCATACATCCAGTTCCACACAAAACTGAGTGGAAAACAACAGAAACCTGACCGGAAGAAA
GTGGTGAGGATGGTGAAGAGATTGTTATCAGACCACCTAGGGATTTAAGACAACCACCAC
GGCCAAAGAAGAGGAGAAGTCAAGGAGAGGACCGTGGACGTCAAAAGCGGGTTGTTCGAT
GTAGCCGGTGTAATCAGGCTGGCCATTTCAGAACAACTTGCACAGCTCCTATATGAAAAA
CATATGACATCTCTCTTTAGATGTTTTACTTCTTCTCTGATCTGAATTTATTATTTCTTA
TACTTAGGTTTAGAATATTATTTTCAAAGCCTTTCTCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 129>:

gmm_129

TTGCATAAAATAATATGACTAATTCGTGAAAAGACAGGTCTTCCCGCCTCTTCGACCTTA
TTGACCTCATCAACCATCTACTTGAAAATTTACTCTATTATAAATATCCGTCCTCTCACC
TCTCACTTTTAAACAAAACTTAAGTTTTCTTAAAGAGTCACTAAGAACTTCTAAGATTTC
AAAGAATGGAAGGAAAAGGTGGTAGCgGTGGAGGAGGGAAAGGTGGTGGTGGAGGAGGAG
GAATAAGCGGCGGTGGAGCAGGAGGGAAAAGTGGTTGTGGTGGAGGGAAAAGTGGTGGTG
GTGGTGGAGGAGGGAAAAATGGTGGTGGTTGTGGAGGAGGAGGAGGAGGGAAmGGAGGGA
AGAGTGGTGGCGGTAGTGGAGGAGGTGGCTACATGGTAGCGCCGGGGAGCAACGGATCTT
CTACCATTTCAAGAGATAAGTTTGAGAGTGATACTAAAGGTTACTTTGATAATCTCCATG
GTAAAAAGTGAGTTTGGTCTTTATTGATCATCTATGGAGAATGGAGTGAAGATGGTTTAC
TACCAAATATATTATGTAATGAATGAATAAATGATAATTTGCTTTATTGTCTTACCCCAT
GTTAACTATATGTGTATTCATCAAGAGACTCTAAAACTTGTGTAATAATCAGTGATTGAA
ATGTAAATGTAAGATTAATTTATCAATTTGGTTCTCACTGACCATTATGGATGGGCTTTT
GAATACATCCATTTCAATTGTTTGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 130>:

GNMCG30F gmm_130

CCAATTGCGTTTCAAAAAATTGCAGGCAGTGGGACAATGGATGCAAGATAGGGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGAAGGTACAAAAGGAAAATAAAT
CTTGTGGCCCCCAAATCACTAAACCAAGGGAAAAATCAGGCTGGAAACTGTCAGGCAAAC
CTGCCTCCCATTTTATTCCTAAATAAGATAGCTAGAAATATAAAAGAGCTACATACCTCC
CTTACAATTTGTCCACAAGGAAATTCCTTGTGGGCCTCAAGATCTTTATCCTAAGACATT
TCTGTTGAATTTCACCCTGGCAATGTAAATTGATGGCTGATCTTCCCAGGTGCAGGACAG
AAAGTCATGCCTCTGCACACCTAAGACAAATGCATATCTGATTGCTTCCTCTGCCCTGTT
GTTTATGTAAAAATGCAGATTCACTGACTAGATTGCATATTCAGTGAGAAGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 131>:

gmm_131

TATGAGAGCAAAGCTTTTGTTGCGGTTATCACCAAGGACAAAGACATAACCTTTGGGGAC
AAACTGCAAATAAACATGAAAAGCAAACATTGTTAACAATCTGATACTCAACAAGGATGA
ACAAGTGGTAAGTAAAAGTTGCTCACCATTGGTTCCATTTCATATGACATTGGTTCTAAG
ACAAAATCTTCTTCTTGCACAATGTCATTCACAAAGAGCTTCCCATCACGAACCTGCATG
GTACATCATCTACAGGTTAGACAAAAATTTGATTAAAAAAACAGAAAAAGGGGTTAGGTC
CATTTCTGAAAAAAAAAAACTTGTAGTCCGAGAAAGCCTCTACACAAATAATACCGACCGA
GGTGAAAAAAAGACTTCAATGGGTGAAAAAGATCAATCAACAAGTGGATTGGATATAAGG
GCTTACTTCAACCCAGTCACCTTCACTTGCCACTATCCTTTTTATGAATACATCATTGGA
ACTGTAGCCATATTCCGGATATTCCTGCAATTCAAAGGGAGAATATCATCAAATTCTTTA
GTTTACAAAAGTTGATACATCTGAATAACAAGAACAATGAACTGTGACTTACCAGCAAAA
TTGGAGGAGCCTTGAAGATTACTATATCTGAAACCTCTGGCTTCCTGAAAAAGTATGAGA
CCTGACCAACACCAAGGCACACAAACGGTCAGTTTAGTCATAAAGAGACTAAAACAGCCT
CATTCACAAACCTACATCAAGCAACTAAACAAAGCTCAAGGTGAAGTCTAGCAATCACCT
ATAGAAAAACCTTCACATTCAATCACATAAGAGTATCATACAACTATCTCCATCCTAAAA
CATGCAAGAACTAATTCCAGAACCGTGTAGAAAAAGTCACCATCCATCATCAGCTATGTT
TTATGATTACAATTATACATGAACAGACTCAGAATTCATACCTTCTCCGCCATAACGCGA
TCACCCTTGTCCAAGGTAGGGTACATAGACGTTGAAGGAATCGACTTTGGCTCCGCAAGA

GCTGATCTAAAAAGGATAGAAACAGTAACCGCCGTGAAAGCAGCCTTAGCATCCTCAGAA
CAAACACTCAAAAGCTTATTAACCCATCCACTTCCTCCATTCCTCGATTCCTTATCATCA
TCATCATCACAAACTGTTCCTCCTTTATCCACGTCATCAATCACCGGTGGATTCTTAATC
CATTTCGACCCTTGAAGAAACGGAATAATAGAAGAAGCCTTGAAAGATGAAACCCCCAGA
ACATTCATCGTTGACGACTCATGACCCGTCGTTGACTTCAATATCGAGATCAAACCCATC
ACAAGCGGGCTTTGACTTCCTTCTCCGATGAGCTCCCTCGCGATGCTACCATACATCGAT
GCAGGTCGATTCCGAGGAGATCTATCGAAATCACGCTTGTGGGGAGAAGAATCTAGGACG
AACCAAGGATTCAAAGCAGTAACCACCGGGACCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 132>:

gnm_132

CAGCCATTAATGTTAACATTTCTTTATGTACATTTCTGATCTTTGGTTGTGTGTTTTCTC
TCATCTATAGGTGCGACTTCAACTGGAAACACTGTTAGCTGAGAAAGCACGGTTGGCTCA
TGAAAACTCGATATACACCCGCGAAAACCTCTATCTGAGAGGAGTCGTCGAATATCACCA
GCTAACAATGCAAGATGTGGTCTACTTTGATGAGAAGACTGAAGAAGTAACGGAGGTATA
TCCCATTAATGTGTCTTCAATGTCTTCTTCATCAGATAACTCTTACAATCCAAATCCAAG
TTTCTTGGAGCTCAAATGAAACACCACAACAACTATCAGTTTCTGCTGTTCTTGTTGTGA
ATCAGACAAGAAGACAAATCGTTGCCTGTAATTGCTCTGTATTTGTAGAAATATATATAC
TCTGTACTCTTTATwTGGGGTGGGGTCTTAAGAATTAGCAGTGAATGtAtTTATTACCCT
TAATTAACTTAAATAAAAGAAGAATGTTCTATTATTTCCCTGAAACAGTACCATGAAAGC
TAAAAGTTGAACTGGTGAGTAGAAATTAGTCAATTATTAATGGATATTACCTGAAATTAC
AGAACAAACAATATATATATAAAGCTACATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 133>:

GNMCG36R gnm_133

AAGCCTTTTGGCTCTTACTGTTGATGAAACGAATTTTCTTACATAATGCTGAAAAGTTGT
ACATGATTATGCTGAGGTGTGCCACATATGGAAGGTTCTTCCGTAATTTTTGTGGCATAG
TGTGAAGTTAATCAAGAAAAGTCATTTCGATTCAGAAGCAGTTATGACCTGAATATGTTG
GCTAGTTTAATACTTTCGCTGACACCAACAATTTTTTGTTAGAACCTGAAACAAATCTCT
TTAGTACTACACTCTCTCTTACTAGTTGGTCACCAGTAAGAGCTTTGTTGGTGGCGAACT
TATTCATTTTCTAAAGAACCACTCTTATGTATTTATTTTAGGCCTGACCACATTTTGCAA
GACTTGAGAGCCAAATTATTTCCTCTAAAACGTAAAAAGGAGAGAGCGCCTGAAGTTGTG
TCCTCCATCTCATTACCTGCAAAGAGGAAGGAGAGGTCTATCTCGTCTTTGGTGGTAAGC
ACACCCAGGGTTTCAGCACAAGCTGGTACAACAGGAAAAAGAACAAAAGCTGCTACGAGA
AAAGATGTAAGAGGTAGTGGTTCATTCACTAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 134>:

GNMCG36F gnm_134

CCATTATTGTTTTTCTACTTGTAACTGTTTTAGAAATATATTGATTGTAAAGAAAAAATT
GTTTTTTAGATATTATTTTTTTAATTACAAAATTAGTAAACCTCACTATAAATTAATAAT
TATTAAAATTATCGATAAATTAATATATTTATGAATATATAGAATTTTTCGTTTCTAATA
TTATTAATTTGTAGAGGTTTTATCGTAATTGTTTTTGGTAAAATGATTTAACCTCTTAAT
TAATCTCCTTATACCATTTACAAGTCTACTTCATGCAGTTTTCAACAACTGTCATAATTT
GTGTTTAACAATATTATAAGAAACAACTTTTAAAAAAATTAAACCAACTAGGCATTTGGT
TGAAAACAATTACAAAAAAAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 135>:

gnm_135

TACATCAACTCCGTGAGACTTTTGCATTTGCTACTTGGAGCTCTACGGTTACTTCCGTTG
AAGCGCTCTGCAATGAATGACCTTTTGACTGTTTCTACTACACACGTTTTTGACGTTTAT
CCTGTTTACCTTTTGTTCTTGTACTACAGTGATCTTTGAACCTGAAAGTGTTTCTCAATA
TATGTTAAACTTGATTCCAGTTAGATTGTTTTGGTTTTTATACAAGAGATTTGGCCTATG
GCTGTGGAGTAATGAGTTATACTTTGTTTTTTATGACTCGGTTTAAGAATCTCTTGCATA
AAACTGACsAAGCAsACTCTTTTTTGACAAAAAAAAGTATCACAACAGAGTAAAATCAAG
ACCTAGACGAAAAGCGAAAAATGACAAAAGCCACAAGAGTTGTGGTAAGCAAAATGTTTG
GGAACCGCTCGAATCTTTTAAAGCATTTGGACATCCATGAGTCCGGCGGCAAATGATGTG
TAGAAGGGTATGTCACAATCTTTGGAGCAGAATCCGAATGTCGAAGTGGAACCATATTCT
CTACGAAATGAGATAAAACACGAATGTCTGCAGCGATAAAATGGACTTCGTTTGTTTCTG
GATTATATTTGAACAGCCTCTTTTCACTGTCATGGAAGAAAAGATTCCCTTGCTTAGAAA
CTGTCACTGGTCTACACCACAACCTCCATATCCAAGGGTGAAGAGCTCTAGGGAATAAAn
CAAATGAGTACGTCTTGGTCCATGTATCTTCCGGATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 136>:

GNMCG37F gnm_136

CCTAGAAAATTTTCCTTATAGAGATATATACAGACAGTAACAAATAACTTTCTAAATTAA
CTCTTCTTATCACATATATAACTGAAAATGTAACCAAAATACAAACTGGATCCAACTCAT
ATATACGTCAAATGTTTTCCAATTCAAAATCTAACCCAACACAAATTAAGAACGCTAAAT
TGATCTATAGCTAAATGTCATTACACAAGTAAAAAGAAACCGTTTTGTAAAGTTATAATC
AATCTGACCATAGTCTAATTTATTTCGTCACAAATATTTTCTAAACGATGATACTCTTAA
ATGTTAAAATTCAATCATATATTTATACCCAAACAAAGCGGCTAAGTAAGATAGGAACCT
TTAACACAACCATAAATAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 137>:

gnm_137

TGTGTGCTCGCATTACGACATAAAAATGTAATTTGAGTTTTATTTCATTTCTTTGACAAA
AAAAAAAAAAAAAAGTTTATTTCATTTATTTACCCTTTTTTATAGATATAAAATATGTAA
ATCAAACTTTTATATCGTACAATTTAAGTATATATTTTGTGTTTTATTATGTCAAGTTCA
TTCATTAATTTTAAATTTGATACAACAAAAGAATAATGTAGAAAGTCAAGTATACAATGA
TGGATGAATGGATTTACATAATGCTTTTTTGGTACGTAAACGTTAGTATTTGCTAACAAA
GTATTAGTTGCGTTATTTTTTTCAGAACAATCAATCCTAATTTTAAATATTTTTATTAAA
AACACTATGATACATATTAATTTACATTATAATTTGTTATTGAAAATAAAAACGGAGCAA
TTTTGTCATAGGTTTTTTTTTTGTCAACCACACAAAAATGGTTTACAAATTACAATGTAA
CTTTAAAAAATGGTATACAACTACACTAACAACCATAGGTCACAAGAAACCACACTTGCT
ATTTTTTCTAGATCCAAATTTCACAATTTAAAACCACACAAATTTTCTAGAAGGAATCAA
TATTTGGAATGCCATTTAATAAAACTTTAACTGTTATTTTTAAATATATTGAATTTAAAA
CGAACTTTGAATGTTTGTGTAGTTTTAGACGAACAACTAATTTGTCAAGTTAGCTAGGTG
ATCAAGATAGAAAAAAGTTCGTGTGAATCATATTTTGTTCATGAAAATTTGGTGTAGTTT
ATGGTTATGAGGTTATCTCATATCTATGTATAAAATTAGAATGTAGAATTTTGTCTGACA
TACTTGTTTAAAACTTAAAATTATGATACATATATCACCTATTCTTTTTAATTCTTAACT
TTATAATCCAAAACTGCAAGATCATTTAGGCCCATTGATTTGAATATTTGTTGCTTATGT
TCACTCAGAAGTCAGAAACCATACCATATCACATGTCTTTTGCTGAAACTCATAAGCCAA
CTGTGGTAGGGGAGGAATTTGCAACAGTGGTCCTCTCTCTTCTCAGAGTTCATTCTTCCC

TTCTTCACAGAAAAAAAAAAAACCCTTAAGGATTAAATCTCATCACTGTTTCTTTCTTCTT
TAATCACATCTCAGTTTTATGTGTCAGTGGTCCTCTCTCTACCTTCAACGATTATCCAAT
GTTCTTCATGCATATATATAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 138>:

gnm_138

ACTAGATACCTCGAATAGTTCCTGTGGAATCAAACCAGAATTAGTAGACACATAATCTTA
CCAAATGTGAAACAAGGGTGCTAATAAGGGCCTTGTTACAGATCACGATCGAAACAGAGG
ACACAACGGATAAACTCAAAGCGCCGATTGTTCCAAGCTGGAACTTCTGGGCATCGCTCA
TATTTGCTCGCTTCTTCTATCACGATCTACGATGATCTAATAAAACCAACAATTACAGTA
TGGAGGAATCAAACTCACATCACATGCTTAGCCAATCAAAACCAAAAGTAACTGTAAGAG
CAACGCGrAGAAGAAAAAAGGAACCTCATTTACGAAAATGCGAGAGAATTCAAAGCAGGA
GAAGCTGAACTGCACCAATGGAAGATAATAACAACACGTCAAATTACAAGCAGAACAAGG
ATAGTGTAAAGTCGAAGAATCCTGAAGCAATAAACCCTAGATCTATCGATGAAGATAAAA
AATAGTTTAACGGAGATTCAGGAGAAGAAAAGGAGAGAAAATGGAGAGAGAGACCTTGAG
AGAATCAGACAAGTTCTAATGGAGGAGAAGAGAATCTGTGAATTTGGAAGAAGAAGCCTA
TTTTTGTAAATTCCAAGAGATTCACCATACGTCAAAATTGGGCCTATATGTAATTAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 139>:

gnm_139

CCATCTCTCAAACTCTTCAACGAGCTTAATGAAGAGAGAATCAGCACCAGGCTCTTCAGA
GAAGAAGCTGTATATGTCTTCCTCACAGCTGCCTGATTTTCTTATGTACTCATTAGCTAA
TTTGCAGAGATGAGGACATTCTCTCCTGTCCTTGAATCCCATCTGCCGCACTACAAAAGA
CACAAACAACATTTCCTTAATATGCATCATAATCTAAGATCAGGAAGATTTCAAGGAAGC
TATGTAGATTGATTTTACCAACATAGTGAGAGAATCTCTCAAGCTTCTCATGGCCTTTGT
GTTTTTGAGACGATCTGAGACGAGGGATGTTCTTGGAGTGACGTAGCTTCCTTAGACGGA
AGTGCAGTGCAAGGGCTAAGAGTAAGCCAATGGATGAGATTACTAAAATCTGTGCGAAGG
TCGTCGTGTTGTTGTTGCTGTTAAACTCTGGAACACACATTGATCTGGATTTGCTTTGGG
GATCATCAAGAGACATGAGATTAAGATTGTTAGAACTCTAAGATTGGGTCCATTCTTGAG
TTTGTTTTCTGTTACGAGACAATGTATCTGCTTTCTCCACGTGTGTTGTACTAAAATAGC
TTTGAGTCCTATTACTCCGGAAGTTTCTTAGTTTGCTTTTTGTGTGATTTGACTCACCAT
TTTGTTTTAATAACCAAACTCTCATCCCCAATGTATGATATAATAGTGTTTTGGCAATGG
TTTTATAAAATCTATTCGTTAAGGCTATAACATAACAAGAATCTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 140>:

GNMCG42F gnm_140

CCTGCAAGCAGAGACGTCTAGAGGATTGATTACGTATCCTACAAGTAAGAAATAGAAGTT
ACCGGCGACATTGATGTTCTCGACGATGTAAAGAACATTGTCCTCGTTGATTTCTCCCTT
CTGCTCAGCTTCAAGGATGTGATCAATGGCACATTTCAATCCTTCACTACCTGTAGGCTT
AGAACTCGCAATTTGCCTGTAAGAATGAATCATCAATGTCAATTTCCCAAAATCAAACTC
AAAAGATAAAACTAAAAATAGAAACAAAAAAATGAACTCACTTCCTCTCATCAACAAAGT
ACTTCTTGAAAAGAGCGATTCTTCGATCTTTCACATCTTGACAAATCTTCAAATAGCCTC
TGAGGAATGGTCTAAGGATAGGAATGAAATCTCCATAGTTATACTCnAAGCTCTGAGCTA
ATCGACTTCTCTCACCATTCAAAGCCTTAAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 141>:

gnm_141

CTTCTGTTTTATATGAGGTATCCACTCGGTCTAATATGGAAACACATAGACCGTAGTTCT
ATACATTGGTTCAAGTCTTGTGCTTATCAATATGACTGTAAGGTCCCCATAAATGTTTAA
ACTAAAGTTAACTCTCCCTTTTATTTCCGACTTGTGTACCGGGTGATATCTTATGATCTG
GGACTTTTTCGACCCACCGGTGTTGAACCTTAACTACTCTATGTTTTTTTTTTGTAAACA
GGTAGAGATAACATGTATGGGAGAACCAGTGATCCCAACGTTGCAGCTTCACAGCTTAGT
AGACCTATGGTTGGAAACAACTTCTAAGCATCAAAGAGTCGCTGCGTCAATAGGTTCATC
TGCAAAGGAATTTGTAATGGTGCTAGTTTATTCTCGGAAGCTCCCTGAATGCAACAACTA
AAGAGCTATTCATTGAATCTTTTCTAGACCGAGAAGAAAGAAAAGTGCAGGAGCAGTGGA
ATGTCTTGTGTAGAAAGAAACTTAGCAATTTATATTTATTTAATTGTAATCTTAAAATTT
GAAACATTGGTGTGAGACAGACACTTTGTTTGTTTATCCAAGAAGATTCAAAAATGGCTT
TTTAAAGGAGATTGTGTCCTTTTTGGATATTTGAATGTATGATTAGGATAATGTTGTCAT
TTCTATAAATATTTGTTTCCTTGTTTGGACTAAATGGAGAAGTACACGGAATCCTTGTGA
ATCGAATGACTTAGCCATTATTGAGAAGTCAAAAGAAAAATAACCAAAAAAAAACTTGTG
AAGTGTACCTTTAATACAAGAATTAAAGAGAGATGTATAAAAGTTTTCTAACAATTTTGT
TCACCAAAAAAAAAAGTTTTCTAACAATTTTTAATACAAAATGCAAAATTAAAGATGAAT
TTTCTTATTTCTTTTTTTAAAACATAATTTTGAAGAAATTTGGTTGTCTTTTTGCATTTG
TTTCTAGATATTTCTAAACTGTTGGGAAATAAAAAAATTTGCACACAAAACATAGTTAAA
TTCACGTGGTATTTATAGAGATTTACTTCAACCAAATTTGGATTTTGGGTCATTGTTTTA
TGGACGGATAAACTATCCATTAGTCAAATTTCCACAAAAATAATATGTGAATTAGATTCG
ACAAGGCTAATTCCCCCACAACATACGATACTAGAACAAACGTCTCTGACTACTTGACGT
AACAATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 142>:

GNMCG44R gnm_142

TCTTTTAGTTTGAGATTAGTTGTGCAATCAAAGGAAAGGAAACTTCTTGGCGAGTAGAGA
GAAATGGTGATTGGTGAAGGTGAAACTCTTTTTTCTCAATTTTAAAATTCATTTTTGTTA
TTTTTAGCAGAAAGTCAAACATTTGACCGAAAAGGAAGAAGAAGGAGATAAGTCAAATCC
GGCTGCTGGGCTTATTGGGTCACACGATCATGTCGTTTCATTTGTTATGCTTGACGAACG
AAACCACTATATTTTGTTTAATATTACTTTCTTTTAAGTAAGGATAAAACATGTCATTGT
TTTACAAAAAAATTAACTGATAAACATTTCTGGTTCCCTGAATATACTTTTTTTTTTTGT
GAAAGGGTTTTCTTATATAACTTGAACATAAAAAGTATACAAAAAAAAAACAAACAATAAC
CAGAAACTAGATTGGGGAAGAAGACCAACTAAGGTACTTAACAAAAGAAGATATCAAAAC
CTATATATCTTGATAATGATGGATTCTTTTTGGTTTGTCATGTTAATGATAGTTTTTAGT
GTAGAACAATAAGAAAATTGACTGAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 143>:

GNMCG46F gnm_143

CCGTGACTTCTTCTGCCGGGATCTTCACGCTCTCATCCCAGAATTTCACGCCCATAATCG
GGTTGACGATTTTGACGCTGGAGTTGAGGTATTCCAGATCCTTCGCTTCATGCGTTGCAC
CAAGCATGTTGGAGTCTGTGGAGTAGGCTTTTTCGACAGACATTTTGTAGTCGAAACCGC
AGCAATCATAAATTCAGACATCTCATGACGGCCGCCCAGTTCATCAATAAAGTCAGTATC
AAGCCACGGTTTGTAAATCTGCAGTTCAGCATTGGTCAGCAGACCATAACGATAGAAACG
TTCGATATCGTTTCCTTTGTAGGTGCTACCGTCACCCCAGATATTCACGCCATCTTCTTT
CATCGCAGCAACCAGCATGGTACCAGTCACGGCGCGGGCCAGCGGCGTCGTGTTGAAATA

GGTCAGGCCGCCGGTGGTGTTATGAAATGCGCCACACTGAATAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 144>:

gnm_144

CTAAACTAAAGTTATGGTCTAAAATCACACTCTCATTTACACAATACTTCTATTATTAAT
GTTTGGTTCTGACTACAATCAAACCTTTAGATCAAAATTGTTTCTTGACTTCTTGTTGAT
TCACCACCAAACTAGACTTATCTCTATACATGTTTTCAAAACCACTCAACAAATATAAGC
AAACAAAGATCTTCTTCACTTTGCACATAACCAGAATGAATTTCTACTAAAAGATGAGAT
CTGAGAAAGATCAAGGAAGGCTTTTTACCAAGAACAGGAGCAGAGATGGCGACGGTAGG
CTTGAGAAGGAGAGCCGGACGAGCGGCGGAGACGtGGAAGCGGAGGCAGTAAAGCTAGCC
ATTTCTCTATTTGCTTCCCCTAACGACTGAGAGACTCTTCAATTGATTTTTTGTTTGTTC
TGTTTGTGTTCTACAGCAACAAGAACACTTTTAATTTCTTTGCTTGTGTTGGCTTTTGGA
TCAAACATAAATATGTGGTGGATAAAAAATCTGTTCGAACCAACACAAGCCATCTAACTT
GGATATGCTTCTATCCATACTCCACCAATCGACGCCCTCCACGTGTCATATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 145>:

GNMCG47F gnm_145

CGAAGCTCTGATGTCCTTCTCTTCTATCATCTCAATCATTGATTCCCTGAAATCTTTCTT
TGGATCAACGGACCGCTTCATCACAGCGAAGTCTCCTAGAACATCTTGTTTGCTCTCTGA
TCTTCTAGAAGTGCTTCTACGAGTACCTGAGAGTTGAATTCTAGGTGAATTCACTCTTTT
GAGGTTTATCCCAGCAGATGGTTTTCTTCCACTAGAAACTTGCCTTTGGTACTTCTTCTC
GGCTTTATATTCATTATCATCTTCATCTCTTGAAATTTTCACAGAAAGATGGCTTTTCTG
CGGTTTCTTAATCGGCATGCATGCAGTACAAGCTTTCTCTACCGAATCAATCACTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 146>:

GNMCG48R gnm_146

ATGGCATAGCTATTCATTACAGATCAAATTCACTTCACTTGTTACCCTGTCCACTACCAT
GCAAATTATCAAAGTAACCTTTAGGATCACTCTCAAAGTTATCTCTTGAAATGTAAGAAG
ATCTATTGCTCCCTGGTGCTACCATGTAGCCACCTCCGCCCCCACCACCACCGCTTTTCC
CTCCTCCACCGCAACCACCTTTCGCTCCTCCACCGCCGACGCAGCCTCTTCCTCCTCCAC
TGCCACCACCACCACCACCTTTTCCTCCTCCACCGCTACAGCTAACGCCTTTTCCTCCCA
TTCTTTGAAATAGTAGTTCTTAGTTTCACTCTCTAGAAATTTTTAAGATTTTGTGTGAAT
GAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 147>:

gnm_147

ACAACTCTTCACTATACTATCGCCATATCCATCAATCTAACATCCCTGAGACCAAAATTA
GAAAGCGAATTGAAGAAACCGCAGAAGTAGAAGAAGCTCACCGACGGAAGTGATGCTCTT
GAGCCGATTCGAAACGAAAACAATCGGAGCTAAAACAGATAACAATAGCAGCGAGAGGAT
CAGAATCCTCTGCCAACGACGAACTTGATTCATCAATGTGCGTAACTTCTCAGAGAACGC
TTCATATATTTTATCTCCGTTGCGCTTTAATCGTTCTCCACGAAGAAGAAGAAGCACATT
CCCAGAGGGAAGAACACAGATCTCGGAGATTCTCTGCTTCTTCAACAAGCAATTGAAGAA
AACGATGAGCAGATTAGGGTTTTCAGATTCTTCTGCAATAGGATTCGATAAATGCGAGAG

TCTGTTTCTACGATTTCATATCTGGAGATTCAGAGCTTCCTCGTGCATGTTTAGAGACTT
CTGCTCTTTTATTTTTTTTCGCTTAACTCAGAATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 148>:

gnm_148

TTAAAGAATGTCTTTTATTAGTATCATCATCATTCATCATCAACATCAACTTGAGACATC
ACATTTACACGCTTGTGCTCACATAATTAATAAATTTATTTTATGGTGAATTTTTAAAAT
TGGTTGACTAATTGAAATTGTATTTGGTGAAAAACTGAAAATCATAAGAACATAACTTTT
ATCTAAAAATATTATATAATTAAGGGAATAGTACAAAAAATAATTATAAAACAGAGAATCAG
TTGCTTCTGATTTCTGACAGATTTCTATCATCATTTCATGGAGATTTTACTCTTCATCGA
AATGATAAAATAACTGAAAAATGTAATTAGCGAATTATAAAACAGTAGCAAATGTAAACA
GTTTTAAAGAATACACAAAAAGGTTGACCAAATGGCAATTACAAAAGAAAAATACAGCTT
CTTTTCCTCGAAGTATGCTTTTTGATTGAAAATATTAAAACGTTTCTAAACGGACAAATC
AATTTAATAAATAAAAACAAAGTTTTCACAATTCAACTAAAAGTTTAACATATGTGAATC
TATCTAGGTTAAAGACTCAAAGTACACGTTATAATGrAGTTCAATAGTTTCATTTCGATG
CTTCTTTGAATTTGGTAAAGTGTGAACCTTATCTTAAGTTTTTAGGTAGAAATAATTTAG
TATAGTAGCACTTTATGTTAAATTAAGGTGATACAGATACACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 149>:

GNMCG53R gnm_149

GAAAATATCAAGATGCTGGCGTAACAGCATTTCTGGTGGAGAAACGTGGTCGAAACTCAT
ATAGCGCACGGATTCAACGGTCGCTTTCAGGTTCTCAATGGTATCCCACGCCAGTTGACA
GTCGGCAATCTGCGTCAGGAGTTGATGGAAGTTGTCATCAAGTTCAAAAAAATCATCCAG
TTGCTTGCGCTCAATGGCAATGCGTTGCTGGTGAAGATTTTGTTCCAGTTGATAGCACTG
GCTTTCGGTAATCATGCTCGCCGCCCGACGCGCCACCGCGCACTCAATGGCCTGACGGAT
AAAACTGCCGTTGCGCACCTGGGCCATGGAAATTTTGTTGACGTAGCTGCCACGTTGCGG
ACGAATTTGAATCAGGCCGTTTTCCGCCAGTTTAATAAAGGCTTCACGAACCGGCTGGCG
TGACACATTGAAACGAACAGAAACTTCTTTTTCCGACAACGGTGTGCCTGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 150>:

GNMCG56F gnm_150

CCGTGGACAGATCCTGACTCTCACGACATCCGAATTTTCAGAACAAGGTAAAAATGATCT
TGGATAGAAGCTTGAATCACGGCAAACAGTTTTATCCCTCACACACAAACAAAAATATTT
AATTGTTAAAGCACATATTTTCACACATATTATAATACAATTAGGTCAAGAATTTAATTT
TTCTATTTGGAACTAGATCAATATATAAACAGAAGAAGAAAAATGTTACGTGCCTGTCGC
CAACAAGTCTGTACATTCTAAAGATGAGATCTTCTTCTTGTTCGGTCATATTGATAAACT
CCCATTTCATACTACTCACTTCTGCATTTTAGTTAGTATATAAATTCAAAATATCAGTGA
AAACGTACATCACAAAACAATTTAATGTTACAGGTCAAATGAATGAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 151>:

gnm_151

CAAGACTTCTTTCTTCTCTGCGTTGAGCTTGTTTATGTAGGTATCAGCGTCTCTCTGAGC
CAACTCGAGCTCATGTTGTAAGCTCTTCAGCTTCTCCTCAGCGGCTTTGCCGATCTCGAG

CTCATTTTTCAGAGAATAAGTCTCTTTCTCAAAGTGCTGAAGCTTCTCTTTCGCGATACT
CAGCTCTTCCTCCAAGGCTAGCACTTTTGTAGCTACTGCATCTTCTTTAGTGTCCTCTTT
ATCCAAATCAACACTCTTTTGTTCAGCACCAAGATGATCCTCTGTGTCAAAAGACATGAA
GCTCTGAAGCTGATTCTTCAGATTAGCAATCTCGTCTTCGTGCATTCGCATCTTCTCATT
AGCTTCTTTAAGCTCTCCCTCATATGTAGTAATTTTGTGAAGGAGATCAACATTGTTGTC
ACCATCAACACTTTCCTGCTGGAGAAGGAGCTTCTGTTTCGTCTCTTGAAGCTCAAGCTC
AAGTTCAGCCATTCTACGGATCAATGCCTCGTCACCGTCTTCATCATTGGCAGAGGAATG
ATCAGAATCAGAACCAGAATCTGTCAAAGACGATGAATCTTCCTCTTCTTTATGGCTAGA
TTGACGGCGACTCAACTTCTCTTTGGTAGGAGATGATATCTCAAGAGAGCTCTGTGACTG
GATCTCAGATGTATGGTTCTTCTGAAGTTCACCACTAGCTTGATCATAACGCTCAGCCAA
TGCGCGATACATGCGGTAGAATTCCTCGACAAGCTGGATTAACTCGGGACGTTTCTGAAA
ATACATCTGAGCTTTCTTTGCAAAAGAGTCTGCGTCTTCTTCAATCAGTTTTAACATGTG
GTTCACGCGATCATCCATCTCTGAGAAACCAAAACAAGAACAAGAGAGAAAACATCAGAT
TGTGTTCTTTTTGAGTAAGTGGAGAGCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 152>:

GNMCG60F gnm_152

TCCACCAGCTCAAAGACGTGAGTAAACACTCTAAACCCAAAAACAAAGCTTCTTCTTCTT
CCTCAAACACTTGTAGCAAGAAGAAACCTTCCTCAGATTCTCTTCCTCAACACTCTTATT
TCTCCAACAGCTTAGTAGCTAACAATCCTCCTCACCATAACTCACCAAGAAACTCTCTTC
ACACAAAAAAGATGAGTAAAAGAAAGACACTTTACAAGCCATCCCTTAAACCTTTGACTC
CTCCTCCTCTTCTTGTATCTGCAAGTTTCAACAAGAGCAAGATCAACGATCAAGATTCGT
CTTACAGCTTGTTCCCGGCTATTGAAACCTCCCCTGAGTCTTTTGTGTATAGTTTCTACG
AAGAGGATGATGATGATGAGTTCGTTGAATTTTCCAACTTCAAGATCAACACAAAGAACA
AAGCTTTCACCAAGCAGAAGGTCAAAGTGATTGATTCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 153>:

GNMCG62F gnm_153

CCAATAGGTCCAAGTAATTTGCGGAAAAGTTAGTGGGCTTTAAATATAAAACATGACTGA
AATTGGGCCGTATTCGACATTTAGTTGTATTATTCTCTAAATATTCAGAACTCTCAATAA
AATCACTCTCTGGCGACTCAACGTTGGCCAGAGAATCGGAGAGGGACATTAACTGCTGGC
AGACTGGCAGAGTGGCAGTAACCATACGCCGAAAGAGATATTCTCAACTTGTCCCGTAAA
TCAACATCTTTACGAGACCTTCATGCACCTTCGGTTCTTTCATTGTTTCTGGGTGGTTGG
TGTGGCAAATAGCTAGCTGTACGTTTGAGGTTGCCAAGAACTCCAAAACTCAGACAGTAC
GTGAGTCTCAAAAAGTTTTTCCTCAGCTAGTTGGAGATTTTTAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 154>:

GNMCG63F gnm_154

CATATTCAGATATTTTATCCAGTTGTATCAAGAGCAAGTCCACTGGTCCAGTAGTCCTCA
TTACGGTAGCTTGGGACCTCCTTTTCTATATCTCTCTCTTTACTCTTCGTCACAAGTTTT
CTATATAGTTTTCTCTACCTCACATCTACTTTTTTTTCATTGCATTCTCCAACTCCAAAA
TCATCAGTTGTAAATAATTTGTCCCCTTCCACTTCCAAATACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 155>:

GNMCG64R gnm_155

CCAAACACATCAATCCTTCTCAGTCCAACATGGTCCATTGCTCTGCTTCTAATATACTGC
AAAAGCCATCAAGACCTGCTATTTCAACTCCTCCTGTGGCTAGTAAATCCGCTCAGGCGC
GGATTGGAAGGCCTCCTGTCGAAGGGCGAGGGAGAGGCCACTTGCTTCCGCGGTATTGGC
CAAAATATACGGATAAAGAGGTTCAGCAGATCTCTGGAAAGTATCCTTTATTTGCTTCTA
GTACTTTTGCCAAATATTTTATTCTGGACAGACTTCTGGTGACTCATTGTTTATCTTAAC
AAATTCTAGTTTGAATTTGAACATTGTACCTCTCTTTGAGAAAACTCTTAGTGCCAGTGA
TGCTGGTCGCATTGGTCGTCTAGTTCTTCCAAAAGCCTGTGCAGAGGTAAATTTCCCATT
CCTTAGGTGATGTCTTTTCTTGTCCTTGAAATATTTTGTAGAGTTAGTACTGATGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 156>:

GNMCG64F gnm_156

CCTTTTTGTCACATAATTAATTTTATATTTATAAAGAGTATATAAATAACATATGATTTG
GATACTATTGGTGGATTATTTTGAGGATTTTCAATTGTACACCTCTAGAAATACAAATAA
AATAAAAATACATTTTGGTCGTAGATTGTACAAGCATTGATTTTTCGATACAAATTTTGT
CATCAATATCTTCAAGATTTTCCGCGGACAGTCCCGAGACATGCGTTTAACATGTGAGTG
ACACATCTTAACATGCGTTTCAAGATTCTAGCTCTGGATCTTCACACTGAACAGTTTCGT
GATGTCCCAACACCGCCCACACCCCGGGAACCGAGCGAGCTAGTTAACCTTGAAGATCGT
CTAGCCTTGGTTAAAACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 157>:

gnm_157

ACCACAGTAGAAGCCTAAAGCATTTGTCCAGATATCAAATTCAGGAGTATAAAGGAACTG
AACCACAACATGTTGAAAGAAAGAGAATAAAGGTGAAACATTTACCTTTGATGAGGAGAT
TGTAGAGTTAACAACAACCGAAGAGGCCAAAACATTGTCAGAGAAGACTACGTAATGGTA
GAGATCAGGATCATTATAACTTTGTTGCAAAAGCTGCCTTTTTTCGTGATCCAGGGTAAA
ATATTCTGTTGTCAACCGCATTGAGAGACAATGAAGCCCTTTTGGGGTAGTCCTTGCTGC
AAGCTGCATTAAATATGCTGCTTGTTTCTTCTGCGCCCGAGCTTGTTCTTCGGTTTTATA
AGTCATGGCTTGGAGTTTGGTAGCAATGGCAGGGCAGTTGTGAAAGGCACGGCTGACCTT
GTATAACGCAACTTCCATGGCCTTCAATCTGTTAGGAGAGCTGAAAAGAAACAAAACATT
TATGTATGACTCGTCTAAATTAACACAATATTCATTAAGATTTAGCTTCATAAGTAAAGG
CCAAAACTTTTTACAGGATGGAACAGGACTCCCTTTGAATCAATCAGCTGTGCTCACCTC
TTTGGCAAATATTTATCGCTTGGTAGTATCACCAGTAGCCCGTTCCAGCTCTTTCGTTCG
AACTCTCAACTCGCTTACGATTTGGGAGTTATTCCCAGGTAGGGCCAAATTCAGATAGGC
TTTCGCTTGGATAATTTTGTCTCTGATCTCGCTTACCCTGTCATCTGTTGCTCTGTCAAG
TTGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 158>:

GNMCG68R gnm_158

GGGACAATTGTGACTATCCCACCACCATGAATGTGATTTCTTAGTCATAGACCTCTTAAA
CTGCTTCTTGCTCTGAGCCTGAGAGAACATCAGACAAAGTGACTAAATGTTAGGACCAAG
AGACTAAACACAAGGATCTAATGAACTTATATAGTGAAGATCACGAAGGTTTCATACCGT
AGACGAAGCCATGACCGTGGAGTGCAGAGAAAAAAACCCTACAAGAAAAAGATCAAGAAC
TTAAGTCATTTGACAAACAAAAGGCAATTTGATGTTCAAAGACTATGACTTTCTCGGATG
TGCTTGAGTTGAACAAAACTAAAGAAACAAATTAGATGAGATAAGAGGAGAAAAGAGGAC

ACGTGAAGATTCAACAACCCATTTGTACTTTGTCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 159>:

gnm_159

CCCAAAACAATGAGCACCACTAATTATTATTGCAATCGTAGAACGAACCATTTAAAGACA
TTTTACACAAAAACATCTCACAAAAGCAAAACAAGGGAATATTTCAACAGATTTCACAAA
CATTTATAAAGTCATCTTCATCCTTTTTTTTGTGCAGAAAGTTTAACAGTTCCTTGGTTT
CATAACGATTATGGAGTGGTTAAGGATGTGCAAGCTGAATTGTCCACCTTTCTCACTAGT
ATCCACTTTAGACTGTCCTGGAGGAGGAAGAAGCTCGAAGTTCTGGACCATCCTACCAAT
GGTGATCCCCAAAATAGGCAATGCCAATATAATCCCGGGACAGCTTCGACGTCCAACACC
AAATGGCACATACCTGAAGTCATTACCGTTAGCTTCCACGTGCGATTCTTCTTCAAAGAA
CCTCTCTGGTCTAAACTCTTCAGGCTTCTTCCAGCTGTTGGGGTTGTTTGCTAGCCACCA
AGCATTAACAAGGATTTTGCTTTCTGCTGGGATAwCGTAGCCAGCGAGCTTCGCAtCAgG
AGGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 160>:

GNMCG72R gnm_160

CATACAGAAGGAAAGGACGAATAATTGTTTTGGAATTTGCATGCATTTGAATTCGAGTAC
TCATAATCTTCTAAGCGAAAACTTGCGAAAACTTTATCACCTATAAAACATTGAAAATAT
TGAAACCAAATGGGTGGTCTAATAGTTTTGAAAACTAATGTGTGGGTCAAAGTCACTAGT
TTAATACTTGAGAGGAATAATTTATGCTCTAAATAATCAACCACAAAATTTTCGATCTTT
CACTCACTCACAGAAAGGAAAACAATTCATTGCTAAAGCGTCATGACTCACGTTGCTTGA
ATCCTTAAATTTTTTTTGTTGTTGTATGGAAACATCCAAAATCTAACATGGTTTATGAAT
TAAGTCGCAACTGATTCATTTTATTATGTTTTCAGTACTATAACGTGTTACATTTAAGTG
AAGGACATCACATATATAAGTATACACAACAAGTTATCTAATCCAACTAGTCCAAGAAGT
TTTTATTTAATCAACAAAAGAAGCAAGGCTTAACATCGAGTTCCTCGACTAAGTCTGTAA
AATCCGCTCAAATCGGAAGTAGACACAATCACACAATGGTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 161>:

GNMCG73R gnm_161

TAATTCTTCTTCCCAAAGTTTCTTGGTTCCATACTTCCATTAGTTTGTCAAACGATTTTC
AGGTCAAAGGCCTAATGATCCATTTTATTTCATTTGCAGTCGAAAAATCCAGTTTTCATT
AGTCATCCTTCTCCTTGGTGTTGGAATTGCAACCGTAACAGATCTCCAGCTTAATATGCT
GGGTTCTGTCTTGTCGCTACTGGCTGTTATCACAACTTGTGTTGCCCAAATTGTATCCTA
TGCTTATATTCTCTTTCCCCTTTCCATATGTCTTCTATTAGCCAGTGGTTCAGCTAAATA
GTAGTCTTTGTTGGAGTCGTTGCTGTTATCTTAACCAGTTATATACAGATGACCAATACG
ATCCAGAAGAAATATAAGGTTTCATCCACCCAACTTCTGTTATCAGTCTTGCCCATATCA
AGCAATCACACTTTTTGTTACTGGCCCATTTTTAGATGGTCTCTTAACCAACCAGAACGT
GTTTGCTTTCAAATACACGTCTCAAGTTGTGGTGAGAATGAAGCAATATATGTGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 162>:

GNMCG73F gnm_162

GATATATTTCTCTGGTTAAGAATTTGAATGGTTGACAAAGAAACGGTCACTCTATATACT

TAGAAAATATAGTCATACATAGACACCATCGGTCTAGTTATAATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 163>:

GNMCG78R gnm_163

ATATTGCTTCCTCTTGCAATCATAATGTAATACATTGCTAAATGTAGAAAAATATCTACA
AACAAACACCACAGCGATTCCAATACTAGATATTGGTGACTTCTTGAGTATCATAACTTG
TTTCCCATATATCAATTTAACATTTTAGCATTCAAAATTAGTTATGAAGTTTCAATTATT
CTTGCTGGAGATAAATTTTATTTACTAGGCATAAATCAATCACAACGTGATATGTGCATG
CTTAGTTAATAGAGTATCTATCGAAAATTCGCTTTTTTTAATTAAAGTAACGTATATCAT
CATCATTATTAAGCGACAAACGAATTTAGACATTTTACCATCATTTACAAGATAATTGGT
GATAGACGAATCATACGTTACTTTATAGATAGTATAAAATAAAATTACGCCAACTCGTCT
ATTGCGCTTGTTTTAGTAACATATGTTAGATGAATTGGCCACGTTGAATCTAATTCATGT
GTGCTTTTTGTAGAAAATCGACAAGTAGATAATTTATTCGTCACAATGACCCAAGATTCA
AACCTAATTGAAATAAAACCCTAGTAGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 164>:

GNMCG80F gnm_164

TATAAGTACTCAAATATAAACTCGAGACGACAAAAAAAGTTATGCACAAAGAGTATTATT
GATTGTATATGTTTTAAAGTTTTTCATTGTCTACCATGTACTATATGGTGATTCCTTTTT
TGTATTTAATTATAATGTATGTACTACATCTTCTTTATTGGTACATTGATTATTTCTCAA
AAGCAAAGTTCAAAATTTTTAGATGCACGTTCAATAAAGTTACATTAGTATTTTGAATTA
AGGTTGTTTAAAGGGTTTTCAAAACAAAAAAAAAAACACGTATGCCGAATTTCGTTGGTC
TATCATATGGAGAAAAGATCTTCAATTCGGATAGACCAACCCGCCAATAGTTTTGAACAT
TTTGCAAAACATTGCCGATTGTTTTGGACTTTGGGTTTGATAAAGGAAATTCCAATTACG
ACAAAAAAAAAAAAAAGGAAATTCCAATTACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 165>:

GNMCG82F gnm_165

CCCAGGACATTCATTTCATCAATGTTTAGGATTTGGATTGAAGCTCTGCCACTTGGGTTT
AGTAAAAACCACATTGAGATTGCTGGGTAATTGAGTGAATCTGTCACCACATGGAATACT
ATTTTATCCGGTTCCTGCAAGCAGTAATATCATTTGTTAAAAGACATGTGGCTTCAGCAG
AGATTCGGAAAAGAGCATTAAAAACACAAGTTTGGATCGGGAATCTTGCATTAACAAGTT
TAAGATGCTTGCAACATGATTTAAAATGATACCTGAGTTTTGAATTAACAAGTGTAAGAT
GCTTGCAATATGGGGCATAAGTTTTGAATCATGAAAACATAAAACAATGCAAGGTTTCTC
AACTGTAATTTAAAAAAAGATAAAGTTATTCACTGAACAAAGAGCACACAAAATGTAACT
TCCTTTTCCTAGTTTCATAACTAGACAATATCCTATATATGGTACTAACCACAGTnGn

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 166>:

GNMCG85F gnm_166

CCGCAAACCTTCTGGTCCAGAAAATGGTAAGTATATGCTTGTTATGACTTCCAGCAGTCA
TAATTGGAGTCAGTTTATGAACCATTTATTTGCTTTATCGCTCAGAACCATGACATGTAA
TTTCACTTTGCATTTTTCTTGTTTGTGTCACTTGTTAACGGAAAAAGGAATGCAAGATCT
GGATGCTGATTTTTACAGCCTTAAGGACAACATGTCCGGAGTAGGTAAGGTCGTCAAACT

CATTATCTATGAATATGGTCCTCTTCTGCTCATGTTGTATGTGATAATGCAGGAAGTTCA
TTTAACCATATAGCAGAACCTACTTCCTCTAAGAGGCAAGCCAGTTTTCTTTGTTTTTGC
TTTCATATAATGCCACTGCACAAGTTTTCTTTCTCAGCATGTATATCATCTTGGTTATCT
TGCTAACAGAATTGCACATTTTCATAGAAATTTTGATGCTTTACTTTCTTACAGGACTTT
GTTTAGTATCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 167>:

GNMCG87R gnm_167

CTCGGAATTCCATTAGTTCATTCCACGGACAAAAACAGAGAAAGGAAACGACAGAGGCCA
AAAAGCTCGCTTTCAGCACCTGTCGTTTCCTTTCTTTTCAGAGGGTATTTTAAATAAAAA
CATTAAGTTATGACGAAGAAGAACGGAAACGCCTTAAACCGGAAAATTTTCATAAATAGC
GAAAACCCGCGAGGTCGCCGCCCCGTAACCTGTCGGATCACCGGAAAGGACCCGTAAAGT
GATAATGATTATCATCTACATATCACAACGTGCGTGGAGGCCATCAAACCACGTCAAATA
ATCAATTATGACGCAGTATCGTATTAATTGATCTGCATCAACTTAACGTAAAAACAACTT
CAGACAATACAAATCAGCGACACTGAATACGGGGCAACCTCATGTCCGAGCTCGCGAGCT
CGTCGACAGCGACACACTTGCATCGGATGCAGCCCGGTTAACGTGCCGGCACGCCTGGGT
AACCAGTTATTTTGTCCACATAACCGAGCGCAAAATGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 168>:

GNMCG88R gnm_168

TTCAGTAAACTTCAGCACGTTTCATCGTCATTGGAAAGACATCTCCTGTCACTTATCAGG
TTCTAGGACATCTAAAAACATGCTTAGTGTTAGCATTTGGGTATCTTTTGCTGAAAGACG
CATTCAGCTGGCGCAACATTCTTGGTATTCTTGTCGCCGTGATTGGAATGGTGCTTTATT
CCTATTACTGCACACTCGAAACCCAACAGAAGGCCACAGAAACATCAACTCAATTGCCTC
AGGTAAATAGTTTCACCTTCCCTTTTGGCACAATGTGACTCAACTTCATTTCATTATATG
CGTAACGAGAAAACAAGAGTTGAGAATTGATGTTGTGAATGTGTCTTGTCTCAGATGGAT
GAAAACGAGAAAGATCCGCTAGTTAGTGCGGAAAACGGGAGCGGATTGATATCAGACAAT
GGAGTGCAAAAGCAGGATCCTGTATGGAATTCAAACAAAGATTTTCAAGCGTAGAGCTGG
AGCTCGATATCTGAAATCTGTTGTAGTATCAGATTTCATAGGTTTCCGTTTGTCAACTTT
GATATCTCTCTTAGAGAGAATCTACAGCTTCCCTTTCAAAGGAAGGGGGGAGAGGATTAG
AGGAGGAACAGCTTTTTGTTGATCCATTTCATATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 169>:

GNMCG90F gnm_169

CCTGAATGTGCATGCAGGGGTCCACTTCCAATAGAGAACATCCTTGGAAGATCTGTGTTC
CGGTACTGGCCACCGAGCAAAGTATCAGACACCATATACCACGACCAAGCTATCACAAGG
GGACCTGTTGCAGTTTCATGACAAAAGAAAGTTGGATTTTTCTTAGGATTAAAGCACAAG
ATTGTGCAAAACCAGTCTGGTCAGAATTGGGTAGACTTGGAATTGAAACTCAAAACCGTT
ATGATATCTGCAGATACATACTGTATCATCGTTATGGATCGCATCTGGTTCTTAGCTGAT
GGTCGGGAAGCCGGAGATGTTACGTGTACAAAAGGAATGGAAGATGCAAAGAAAAGGAAA
CGATTTACTGTGATTGTTATGTGTGAAAACCCTGGAnCAGATACTGTAGTAAAGCCATAA
AGGCAACTGTTAAACAAAAGTGTGATTTTTTGTTGTTATGAGTTTGTACTATAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 170>:

GNMCG91R gnm_170

GGAAGCCAGTAAGGATATACGGCAGGCATTGAAGAGTTTCGCGGGGAAGGAAGTGGTTTT
TTATCGCCCTGAAGAGGATGCCGGCGATGAAAAAGGCTATGAATCTTTTCCTTGGTTTAT
CAAACGTGCGCACAGTCCATCCAGAGGGCTTTACAGTGTACATATCAACCCATATCTCAT
TCCCTTCTTTATCGGGTTACAGAACCGGTTTACGCAGTTTCGGCTTAGTGAAACAAAAGA
AATCACCAATCCGTATGCCATGCGTTTATACGAATCCCTGTGTCAGTATCGTAAGCCGGA
TGGCTCAGGCATCGTCTCTCTGAAAATCGACTGGATCATAGAGCGTTACCAGCTGCCTCA
AAGTTACCAGCGTATGCCTGACTTCCGCCGCCGCTTCCTGCAGGTCTGTGTTAATGAGAT
CAACAGCAGAACTCCAATGCGCCTCTCATACATTGAGAAAAAGAAAGGCCGCCAGACGAC
TCATATCGTATTTTCCTTCCGCGATATCACTTCCATGACGACAGGATAGTCTGAGGGTTA
TCTGTCACAGATTTGAGGGTGGTTCGTCACATTTGTTCTGACCTACTGAGGGTAATTTGT
CACAGTTTTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 171>:

GNMCG93R gnm_171

TACATAATGCTGAAAAGTTGTACATGTATCAAATTGAAAAATTGATGATGCAAAGTTATA
AAGCAAAAACAAAGTAATGCACACTTACCTAATGTCGAAATCTAGGTTCCTTTAACTTTG
ATACGAAATCAAATTTTTTTCAAGAATACATACTTACCTAAAGTAAAAGTAGACGGTTCT
TTTGAAATTAGATTTTTCCGAAGAAACCGAAAGTATCTTTGTTTAGCCATTAAATCATGT
AGTAACATATCTCTATCCTATCGGTAATGGATGAGGACCAAGAGCGAAGTACCATGTACA
AAATTAGTTCAATAAACGTAAAACTTCAATCAATTAATAATCGATGAATTATTATTTTTT
ATATATTAATAATTTTTTATGACATAAATGATATAAATCAATAAAATAATTTTAAGAAGT
CATTTTTGAAAATTCTATGTAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 172>:

GNMCG93F gnm_172

TTATTAATTCTTTTTTTGCAGTCTTCATATGCAAATCCGGACCAGTCCCTCTCTAATCGA
AGAAACAAGGATGTTGATGAACCATGGGATTCCAAATTACATCTTTGGAAACCTCTAAAT
TTTCTTGTGGATGTGGCAAACGGAACAAAGGACCCAAAATCTGAGCTTGGAAACGCATCC
CACAATGATGTTCAGGGGAGTAAAACCAAAACAAAGGATCATAAAAGAAAGTGTAAACTC
GAGGAAGAGATCAGCAATAACGGTGATCCTACAACATCAGAAACTGCTACACTTAAACGA
ACGCGTCGGACTCGTCGCAAAAGGTCATCTACTTTTGGTGATTCTAGAATTCCACTGTTA
CCAGGTGCAGCAAGCCTAAAACAGGAGAGGAGAAACGGTCATGTTTGGTTCTCACTTGTA
GCGTCAAGTAATCAGTGAGATTCCTGTTCTGTATCTGAGACTCTGAGTACTTCTGATATT
CAATATTTTCTGTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 173>:

GNMCG94R gnm_173

GTCAACCGCATTGAGAGACAATGAAGCCCTTTTGGGGTAGTCTCTGATGCAACTTGTGCC
ACATATGGAAGGTTCTTCCGTAATTTTTGTGGCATAGTGTGAAGTTAATCAAGAAAAGTC
ATTTCGATTCAGAAGCAGTTATGACCTGAATATGTTGGCTAGTTTAATACTTTCGCTGAC
ACCAACAATTTTTTGTTAGAACCTGAAACAAATCTCTTTAGTACTACACTCTCTCTTACT
AGTTGGTCACCAGTAAGAGCTTTGTTGGTGGCGAACTTATTCATTTTCTAAAGAACCACT
CTTATGTATTTATTTTAGGCCTGACCACATTTTGCAAGACTTGAGAGCCAAATTATTTCC
TCTAAAACGTAAAAAGGAGAGAGCGCCTGAAGTTGTGTCCTCCATCTCATTACCTGCAAA

GAGGAAGGAGAGGTCTATCTCGTCTTTGGTGGTAAGCACACCCAAGGTTTCAGCACAAGC
TGGTACAACAGGAAAAAGAACAAAAGCTGCTACGAGAAAAGATGTAAGAGGTAGTGGTTC
ATTCACTAAGAGAACAGTGAAGAAGGAAGAAGAATTTGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 174>:

gnm_174

GCCCATTACGGCAGCAAAATTGCTTTGCGGAATGCTGAAATTGATGTTCTTCAGAATCGG
GCGGTCGCCATACGCGAAGGCGACGTCTTTCATTTCGATAAAGGGGGGCAATTGTGGTGG
GCAAACAAAGCGATGGGCGTTACACCGAAAAACGAGCGCGTGATTTCCAACGTCGTCATG
ATGGGCATGGGCGAGCCGATGGCGAACTTCGACAATGTCGTTACCGCCTTAAGCATCATG
CTGGACGACCACGGCTACGGTTTGAGCCGCCGCCGCGTAACCGTTTCCACTTCGGGTATG
GTTCCCCAAATGGACAGGTTGCGCGATGTCATGCCGGTGGCTTTGGCGGTTTCCCTCCAC
GCTTCCAATGACGAAGTCCGCAACCAAATCGTACCGTTGAACAAAAAAATATCCCTTGAAA
GAATTGATGGCCGCATGCCAACGCTATCTGGTCAAAGCACCCAGGGATTTCATCACTTTC
GAATACGTCATGTTGGACGGAATAAACGATAAGGCGCAACATGCGCGCGAACTGATCGAA
CTGGTCACAGATGTTCCCTGCAAGTTCAATCTGATTCCGTTCAATCCCTTCCCAAACTCC
GGATACGAACGCTCCAGCAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 175>:

GNMCH55F gnm_175

TATCCATTTAATGTTCACTTTTGAAATATGTTTTTGCTGGTTAAGGAATTTTAGGTGAAT
ACATGTTCAGTATTTTAAATGTGTTTCTTCATTGTATTCTGGCTTGTGTAGTCTCTGGTG
AGACGCCTACTATATTTGGTATCCTTGCTCTTTTTTACTTATTGTATCTTTCTTATCTTG
CTGTTTTTAAGATTTTCTTTTCTTTTTTCTTAGACAGAGTTTCACTCCGGTCTCCCAGGC
TGGAGTGCAAATGGCATGACCCTTTGGCTCACTGGCTCACGGCCACTTCTGCTATTCTGC
CGCCTCAGCCTCCAGGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 176>:

GNMCJ01F gnm_176

CGTCATTATGGATCTTGAATCCTCTTCTCGGCAGGTTGCAATTAGCGAGTGGGTAGTATC
ACCAACAGCGCGAAATCCGCGTCTGATAATGGATATGTTCTGATATAACGTGTTAGTAGG
CACACGCATACCTTCTTCTTCCCAGACTCTGGTGAAAAAATCTTGTTGTGCAACCACATC
AGGAAAAGCTTCAAGTAGAAGTGATAAACATCGACTGGCTGGCGTTGTCAAGACGACGTT
AAGATCGGCGTTATGTACCGATATTAATTTTCGGTGCTCAGGCCAGAACTCGATATTATC
GTTAATAATCCAGTACATACGTCAATAAACACTAAATCAATCGAAATGGAGATCACATAG
TTTGCTAAGTATATTGGTATTTACGGCATAAATATATATTAATTTTATATTTATCATGAT
GATTGAAATGAGGCTTTAATGTTGCAACGTAAAACTTTACGTAAATTAACATGGTTAACA
TTTATGCCACTATTGTTTGTAAATTCATATTTCGTAATGCTTCTGAATTTTTCGTGTGAT
GGTTTTAAATACTATGGTGTTTACTCTTGAGGGGACGGCCTATTTATAAAATACGGACAT
TTCAATAAATGCCCGTATAAACAGAGTATGATTCTGGCTGGTCGTTGAGTATCAATGTTG
GACCGAATGTGAACGAGTAAATAAATTCGGGTATTTTACCACCCATTCTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 177>:

GNMCJ02R gnm_177

GTACCCCATTCTCAATAGCGTTGCCGGGCGTCACGATATGGACAGCCTCGCGGAACGATT
GGTTGAAGCACAAAACCATCACTTTTGAAGAGATTGCTGGTAAAGGCAAAAATCAACTGA
CCTTTAACCAGATTGCCCTCGAAGAAGCCGGACGTTACGCCGCCGAAGATGCAGATGTCA
CCTTGCAGTTGCATCTGAAAATGTGGCCGGATCTGCAAAAACACAAAGGGCCGTTGAACG
TCTTCGAGAATATCGAAATGCCGCTGGTGCCGGTGCTTTCACGCATTGAACGTAACGGTG
TGAAGATCGATCCGAAAGTGCTGCACAATCATTCTGAAGAGCTCACCCTTCGTCTGGCTG
AGCTGGAAAAGAAAGCGCATGAAATTGCAGGTGAGGAATTTAACCTTTCTTCCACCAAGC
AGTTACAAACCATTCTCTTTGAAAAACAGGGCATTAAACCGCTGAAGAAAACGCCGGGTG
GCGCGCCGTCAACGTCGGAAGAGGTACTGGAAGAACTGGCGCTGGACTATCCGTTGCCAA
AAGTGATTCTGGAGTATCGTGGTCTGGCGACGTGAAATCGACCTACAGCGACAAGCTGCC
GCTGATGATCAACCCGAAAACCGGGCGTGTGCATACCTCTTATCACCAGGCAGTAACTGC
AACGGGACGTTTATCGTCAACCGATCCTAACCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 178>:

GNMCJ02F gnm_178

CCTGACTGACGGAGACGACCGCTTTGACTAATTTGAATTATCAACAGACGCATTTTGTGA
TGAGTGCGCCTGATATTCGCCACCTACCTTCCGATACCGGAATTGAAGTGGCTTTTGCAG
GCCGTTCCAACGCAGGTAAATCCAGCGCGCTGAACACGCTGACTAACCAGAAAAGCCTGG
CTCGTACCTCAAAAACCCCAGGGCGCACCCAGCTTATCAACCTGTTTGAAGTGGCTGACG
GCAAGCGTCTGGTTGACTTGCCTGGGTACGGTTATGCGGAAGTCCCGGAAGAGATGAAGC
GCAAATGGCAGCGTGCGCTCGGCGAATACCTCGAAAAACGTCAGAGCCTGCAAGGTCTGG
TGGTGCTAATGGATATTCGCCATCCGCTGAAAGATTTGGATCAGCAGATGATTGAGTGGG
CGGTAGACAGCAATATCGCCGTTCTGGTGCTGCTGACCAAAGCGGACAAACTGGCAAGCG
GCGCACGTAAAGCGCAATTGAATATGGTGCGTGAAGCTGTACTGGCGTTTAACGGTGATG
TGCAGGTTGAAACGTTTTCTTCGTTGAAGAAACAAGGCGTGGACAAGCTGCGGCAGAAAC
TGGATACCTGGTTTAGCGAGATGCAGCCTGTAGAAGAAACGCAGGACGGCGAATAATTTT
CTTGCCTTAATGCTTGTGCCGGATGTGGCGTATCCGGCCCGTAAATTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 179>:

GNMCJ03R gnm_179

CCCTCCCTAGTAGCTAGGACTACAGGCACACATCACCACATCAGGCTAATCTTTTAATTT
TTTTGTATGGGGGGGGGGGTCTCACTACATTGCCCAGGCTGGCCTTGAACTCCTGGCCTC
AAGCAATCCTCCTTCCTCAGCCTTCCAAAATGCTAGGATTAGAGGTGTAAGCGACCACAC
CTGGCCAGCAAGGTTGGGATATTTTTAACAGCCAAAGTATTTCCAGTTCCCTCAAGGGCC
TTCATGAAAAAACAATTTAAGTCCAAACAGAATTAATTTTAACTCACTGTAGTTTAATAA
TGAAGCGCACCGTATAAGAATTTTAGAAGGAAAGTCTGTGCCTAATTAAACTCTGGCAAT
AAAGACAGAGAAGTCTGAAGGTAGAGAGGCTTTCTCATGGTTACCCAGTGTGAGACTCTG
ATTCCTGGAGACCACAATTATGCACCAGGCAGAGGGAATTCTACTATGCATTTGAGACTT
TGATTATGATGTTGTATAATGGACATTATGCACAAATCTCAGAGCTGGATTCCAGGAAAA
GATTGATTGGCATTCCCCATCCTCCAGCCCCATCTGCTTTCCGTATGTATTCCCCACACC
GAGCTCATTCCCGTCTCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 180>:

gnm_180

AAAGCTTTACTGGGACACAGGCATGCTCATTCATCTATTGTCTACAGCTGTCTTCAAGCT
GCAGCGTCAGAGCTGAATAGTTGAGGCAGAGATGGTAGCTTACAAAGCCTAAAATATTTA
CCTGGTCCTTTACAGAAAACATTTGCCAAGCGCTCTTCTAGTCTAAAGTACCTGTAATAT
CCTTTCTGCCTGGGTGCAGTGGTTTATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGCC
AGGTGGATCTGTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGAGGAATCACAT
CTCTACTAAAAATACAAAAATCAGCTGGACATGGTGGCAGGCACCTATACTCTCAGCTAT
TCAGGAGCTGAGAGAATCACTTGAACTCTGGAGGCAGAGGTTGCAGTGAGCCGAGATTGT
GCCACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCGTCTCAACAAACTATTTTATTT
TCTTCATAGCCGCTACCAGTATCTAAATTTCTAAGTTCTCTCTCTCTCTTTATTTACTTA
CATGTTTAAAAAAATTGTCTCCACCAACACTCCCACAATAAAACAATAGGGCCGTAAGAG
CAGAGACTTTGTTTTGTTTCCTTCTCTATCTTCAGCTATTGATACATAATGGGCTTTTAA
AAAGTTTATTCTGTTTACATTACTGACATTAAAGGTTTAACAAATTGAAGCTATCTGAGA
AATTGTTTGTATTGCTAAGCTATATAGCCATTCTTTTCTATCGCTGTTTTGTTTGTTTGT
TTGTTTGTTTGCTTGTTTTGCGACAAGGTCTCACTACATCACTCAGGCTGGAATGCAGTG
GCACAATCCCAGCTCACTGCAAGTTCTGCCTCCCGGGCTCAAGTGATTCTCCCACCTCAG
CCTCCTGAGTAGCTGGGACCACAGGCGCACGCCACCACACCTGGCTTTTGTTTTTTTGTT
TGTTTGTTTTGGTAAAGACAGAGTTTTGCCATGTTGGCCAGGCTGGTCTCAAACTCCTAA
CCTCAAGTGATCTGCCCGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACC
GCACTTGGCCCCAATTTTCTTTTCTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTTGAGA
CAGAGTCTCACTCTGTGCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 181>:

GNMCJ04R gnm_181

CGGCGCATTCTCAGCCGGAGTACCGCAAACTTGGCCCGTTCGTGGCTGATATTCACCAGT
GGCAAAATCTGGATGACTATTACAACCAGTACCGCCAACGCGTAGTTGTTTTGCTTTCTC
ACCCCGCCAACCCGCGCGATCACACCAATGTTTTGATGCACGTTCAGGGTTATTTTCGCC
CGCATATTGATTCCACAGAACGCCAGCAGCTGGCTGCGCTTATCGACAGTTATCGCCGTG
GCGAGCAACCACTTCTTGCGCCGCTGATGCGTATCAAACACTATATGGCGCTTTATCCTG
ACGCCTGGCTTTCAGGGCAGCGTTATTTCGAACTTTGGCCGCGTGTGATTAACTTGCGCC
ATTCAGGCCTCTTATGACTACCCATCTGGTCTAGAATAAACACAAATATACGTCTGCACG
ATAATCTCGCACTGGCTGCCGCCTGCCGCAATTCGTCTGCACGCGTGCTGGCGTTGTATA
TCGCTACACCACGCCAGGGTCTGACGCATAACATGTCGAAACGTAAAGCTGAACTTATCA
ATGCTCAACTGAATGGGCTACAAATAGCGCTTGCGGAAAAAGGTATTCCTTTATTGTACC
GTGAAGTGGATGACTTTGTCGCCAGTGTCGAAATAGTTAAACAGGTGTGCGCGGAAAACA
GCGTTACCCACCTGGTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 182>:

GNMCJ04F gnm_182

CGGCGATCAACTACTCCATCAATGCATATATTGAAGTATTTGATCAAATTACCTGGGGCG
CACTGGCGTGTGTAGGACTGGTACTGATGATTTGGCTGTATCAGGCGCTGAAATTCAGAA
ACCGCGCGCTGGCGCTGGAGTCTTAATAGGCCAGCACCGATGCCTGATGCGACGCTTGAC
GCGTCTTATCAGGCCTACGTATTTCCTGCAATTTATTGAATTTGCACAAATTTGTAGGCT
GGATAAGGCGTTCACGCCGCATCCGGCATCTGGGCTCGATTGCCTGACGCGTCTGTTATT
TCCCCTTCCGCGCCGCCTCATACGCTGCCAACGTTTGTACTCTCGCTTCTTTGTGCTCGA
CTATCGGTTGCGGATAATCCAGCGTCACACCTGCTTTCTGCGCCCACTTCCACGGCTCAT
GCACCACTTTCCCTGGCACATCGCGCAGTTCCGGTAGCCACTGGCGGATAAACTCGCCCT
CATGATCAAATTTCTCGCCCTGGGTTGTCGGGTTGAAAATACGAAAATACGGCGCTGCAT
CGGTTCCGGTTGAAGCGGCCCACTGCCAGCCACCGTTATTGGCTGCCAAATCACCATCAA

TCAGCTGCGACATGAAATATCGCTCGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 183>:

GNMCJ05F gnm_183

CCCAGCTACTTGGGAGGCTCAGGTGGGAGGATCACCTGAGCCAGGGAGGTTGAGGCTGCA
GTGAGCCATTACTGTGCCACAGCACTCCAGCCTGGGTGACAGAGCGAGACCCCATTTAAA
AAAAAAATAGTCTTTAAACTAATAATAATACCACTACCTTGCATCTGTAAAGGGCCACCT
TTTCCAAATTTCCCCTTCATATGCCAAGCTGTGTAAGAAACAACTCTTTGAGATTTTTAG
GGCAGCTACTATTGATTCCACTTTACAGCAAATCTGAAGCCAAGGCCAGGCGCGGTGACT
CACGCCTGTAATCCCAGAACTTTGGGAGGCCGAGGTGGGTGGATTACGAGGTCAGGAGAT
CAAGACCATCCTGGCCAACATGGTGAAACCAGTCTCTACTAAAAATGCAAAAAATAGCTG
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCT
TGAACCAGGGAGTCAGAAGTTGCAGTGAGCCAAGGTCGTGCCACTGTACTCCAGCCTGGC
CACAGAGCGAGACTCCGTCTAAGAAAAAAAAAAAAAAATCTGAAGCCAAAAGAAGAAAGGT
CACATTTCCAAAATAAGCATAAGAATTTTATCTCATCCTAAGCAAGAGACTCTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 184>:

GNMCJ06R gnm_184

ATGGCTTGTACTACATTGTGAATATATAAAAATCCATTGAATTGTAAACTTTAAATGGGT
GAATTTTATGTCAATTAAAGCTATTTTTTAAAAAAGACCTATATGAAAAACTTGAATTTT
GGGGAGTTAGTTGTATTAACCAGGCCCTATCCAGTCTTTTTTTCAAAATTAGAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 185>:

GNMCJ07F gnm_185

CCGGAAGAAAGTGAACTCTGAGTAGAGCAGGGGAACACCGAAGATGCTCCAGTGCAGATC
AGGAAGGAGCAGGGGATGAAATGTTACAAATTCTAGAACTCAGAGAGCTGAAGGTAATTA
CTTCCTTTTCAAGTTGTGAAACATGTTAACCTGTGGTAAAATACTTATAAGATGATAATT
ACCATCTAACCGTGTTGAAGTGTACAGTTCAGTTGTGTGAAGTATATTCATGTCATTTTT
TTTTTTGTTTTTTTTTTTGAGACGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGTG
GGATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCT
CCCGAGTAGCTGGGACTACAGGCGTGCATCACCATGCTCAGCTAATTTTTGTATTTTTAG
TAGAGACGGGGTTTCACCATGTTGCCCAGGATGGTCTCCATCTCTTGACCTTGTGATTCA
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGGAACCGCATCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 186>:

GNMCJ09R gnm_186

CCATGACAGGTCCTTTTTTTCTGTCTGTATACAAGATTAGGGGAGTGTTTGGTGGGAATA
GTCTGCTCTGATGAGGAGGCAGTCATTCTGGTGTTCCTGTTTGCTGCGTAATGTGGGAAC
ACATTTTGTCCAGCACTTCTGGATAAAACACACAAACCAGGCTCGACAAACTCCCCCAGT
GCCACATCACTTGTTCATTTCAAGAAAGATAGCTGAGGCCGGGTGCAGTGGCTCACACCT
GTAATCCCAGCACTTTGGGAGGCCGAGGAGGGTGGATCACCAGGTCAGGAGATTGAGACC
ATCGTGGCTAACATGGTAAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCTGGGGT
GGTCACATGTGCCTGTAGTCCCAGCTACTCAGAAGGCTGAGGCAGGAGAATGGTGTGAAC

CGGGGGGCGGACTTGCAGTGAGCCAAGATCGCTCCACTACACTCTAGCCTGGGCGACAGA
GCGAGACTCTGTCTCAAAAAAAAAAAAAGAAAGCCAACCTTCAATCACTTCAGCATCCTG
GACAGTTCCGAGCACATTGCAGGCATAATAGCTGTTTGAGGGCAATAAATAGCAGTCCTC
AAAGCCATTGAGCAAATACCTGCTTCCCCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 187>:

GNMCJ09F gnm_187

CCGAATCCTAGCTAGATTTGTCCGCCAACAATATCTGAACCCCTGGCCTCTTGGAAAAAA
AAGAGAGAGAGAGAGAATATAAAATGTACTATACAGGGTTAAATTGACACTTCCTTCTTG
AAGTATTTAGAAGTACTAATGGAGAGTTGAAAAGGGAAGCATGATTTCCTCCCTATGTGG
CAATGTTGTTTAATGCAATGCAGGACAGCTTCCCAGTGCTTCAAGTCTTCCACCTCCTGA
AACACTGATGTGGAGGGGGAAACACAGGCCTTAAAGATCAGAGGCCTGAATTCGAGCCCC
TGCTCTGCCACATACTTGCTGTGTCACCTTGAACAAATTACACAGCCTCCGTGGGCTTTG
GGGATAAATGTGAGACGGCATAGAGAACTCATCTCCTCTGCTGACTGATTCTGATCCTTT
GGTTTGACTGCCTGAGCACCATGTGATGAGCTCTGTGAGGGCTCCATGGAGGGAAAATGC
AGTCATCTATTGGTGATATCTGCTATGGACAACATGAGTTGGAAATTCTGCCAGCCAGAC
TATGTCTTCAAGGACTGTGAACAAGGTGTCTTCTGAAGTCACTTCCAGATCAAAGGACTT
GGTGACTCGTTCCAATGGGACTGGAATACGAGAGGGACTCTATATCATCATGGTTATTTT
CTAAAGGCCCTGAAGAATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 188>:

GNMCJ10R gnm_188

CCCAGGCTGGTCTCGAACTCCAGACCTTGTAATCCGCCTGCCTCAGGCTCCCAAAGTGCT
GGGATTACAGGCATTAGCCACCGTGCCTGGCTTTTGGTGTCCTTCTCGTTTAGTCCACAC
TCCTGGCCACTTCCCAGGATGCAAACTGGCTCACAAGGATTGGATTAGGACCCATTCCAA
TCAAATAATAATAACAAACATTTGTTTATTTTTGGCTTCTGGATATTAATTTTAATTACT
TTGAAACAACATAATTTACTACCAGATGTTTAACAAGCACCCATTATAATTGCTAAACTG
TGAATTTAGTTTTAACTGTGTCTGACCAACTATACAAAACTCATCAATTTTAATTTTGAC
AAAAGGTAGTAGGCTGGGCATGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCA
AGATGAATGGATCACTTGAGGCTAGGGGTTTGAGACCAGCTGGACAACATGGTGAAACCT
GTCTCTACTAAAAAAAGAAAAATTAGATGGCCATGATGGTGCACACCCGTAATTTCAGCT
ACTTGGAAGGCCGAAGCAGAAGAATTACTTGAACCCAGGAGGCAGAGGAGGTTGCAGTGA
GCCGAGATCATGCCACTGTACTCCAGACTGGGCTGAGCTACAGAGCAAGACTCTGTCTTA
AAAAAAAAACAGGCGAAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 189>:

GNMCJ10F gnm_189

CCGGTATTAGGAAAGAGACAAACCACTTTGTCCTGGGCTGGGAGGGAACAAAACCGTCTC
CCTCAACTCCCTAAAATCAAATTCAGAGAGGACTGTCAAGGTGGACCCATGGAGCCCCAG
TCAAGGTCCAGAAACAAGGATTCAAAGCCTTCAACATAAAGTCACCACGAGGCTAGAAGA
GACCAGATGAATGGGCTGGCCTGGTACCTGAGTCAGAAAGTGGGAGTGCGTGGGCATTGG
TCATGGTGCCATAATGGAGACAGTGAGCACAGGAGTTAAACAAGATGGCTCTGAGGCCAG
GTGCCCTGGGTTCAATCCCAGCTGCGTAACTTTCACGTGGCCTTTTCCAGTTCCCTTACA
CACTCTGTACCTCACATGAATGAACTGGAAAATGAAGACTACAGCACTACTGACTTCAGA
GGATTGTTGGATTAAGTTATTAATTCACTTAGAACACAACCTGGCACATAGTAAGTGTTC
AGTAAATGTTTGTTATTCCACACCCTCCCTCCCTTGGCCCCGCGATGGAGGAAGCAGGCT

AGGACCAGCCCTCGGAGCTGCAGCTGCCCTTCATCCCTCCCTCGGCCTCTCTAACGAGAT
CCTGCTCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 190>:

gmm_190

AAATTTACTCAACCATTCTGGAAGACAGCGTGGTGATTCCTCAAGAATCTAGGACTAGAA
TTACCATTTGACCCAGCAATCCCATTTCTGGGTATGTACCCAAAGGATTATAAATCATGC
TACTATAAAGACACATGCACACGTATGTTTATTGTGGCACTATTCACAATAGCAAAGACT
TGGAACCAACCCAAATGTCCTCCAATGATGGACTGGATTAAGAAAATGTGACACATATAC
ACCATGGAATACTATGCAGCCCTAAAAAAGGATGAGTTCGTGTCCTTTGCAGGGACATGG
ATGAAGCTGGAAACCACCATTCTCAGCAAACTATCACAAGGACAGAAAACCAAACACCGC
ATGTTCTCACTCATAGGTGGGAATTGAACAATGAGATCACTTGGGCACAGCAAGGGGAAC
ATCACACACCGGGGCCTGTTGGGGGGTGGGGGGAGGGGGTGGGGATAGCATTAGGAGATA
TACCTAATGTAAATGATGAGTTGATGGGTGCAGCAAACCAACATGGCACATGTATACCTA
TGTATCAAACCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTTAAAAAAAA
AAAACCTTCCCTTTCTTGAATGTAAATTGGTTCAACCATTGTGGAAGACAGTGTAGCGAT
TCCTCAGAGATCTAGAACTAGAAATACCATTTGACCCAGCAATCCCATTATCGGGTATAT
ACCCAAAAATATATAAATCATTCTGTCACAAAGATAAATGCACACATGATCATTGCAGCA
CTAATCACAATAGTAAAGACATGTAGTCAACCCAAATGCCCATCAATAATAGACTGGATA
AAGAAAATGTGGTACATATATACCATGGAATACTATGCAGCCATAAAAATGAACAAGATT
ATGTCTTTTGCAGGGACATGAATGGACCTGGAAGCCATTATCCTCAGCAAACTAACGCAG
GAACAGAAAATGAAACACCCCATGTTCTCACTTGTAAGTGGAAGCTGAACGATGAGATCA
CATGGACACAGGGAGGGGAACAACACACACTGGGTCCTATTGTGGGGGTGGGGTGGGGGA
GGGAGAGCATTAGGAAAAATATCTAATGCATGCTGGGCTTGATACCTAGGTGGTGGGTTG
ATAGGTACAGCAAACCACCATGGTACACGTTTACCTATGTAACAAACCTGCACATCCTGC
ACGTGTACCCCAGAACTTAAAAATAAAAAATACCCCCAAACACACTCCTTAGGTATATGT
AACTATTTTTCCCGGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 191>:

gmm_191

GTAAACCAAATTCGAGGATTGTGTCTAGGACTTGAAGGGCCATAGGCATTGCAACCACCG
CCAACTCCCTCCTTTTACTAATCGTAGTGCTTTATGGCCATAAAGCACTCTTTCTAAATC
TAAAAATGATTTAGAAGAAGGAAAAGACCAATATGATGATAACAATGTGGGAGATTCCTT
TTATCTTTTGTAGCCAAATGACAGTAAGGAAAACAGACAGTATGCTGACCTCATCGTTTC
TCTAGGTTGCCAGTTTTTTTCACTAAGATGTATATAAATGAAACCCTTTTGCTCTGCAGG
CTATTATACTATTCCTTTTAAATTCAGCATCTCTTCCCTCCTCCGTTCATGCAGATTGTG
GAAGAGAACATCATTGGGAGAGAGAGTTTATTGGTTACTGCTCACCTGAGTAAGCAGTAA
GCCCAAGTGGCAGAAAAACCCATTCAAACTGGCTTGAAGCAAAAAGGGAATTATTGGAAC
ATGTAATTGAATAGTTTTAGGTGTAGGGCTGACTTCAGACGCAGCTGGATCCAGAGACTC
AAATGATGCCATCAGAAACATCTTTGGCTCTTTGTCTTATATGCTGAAAACCACTGAATT
GTGCACTTTATTTATGTAATTTTTTTTTTTTTGAGACAGAGTTTCACTCTTGTTGCCCAG
GCTGGAGTGCAATGGCCCCATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGA
TTCTCCTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCATGCCACCACGCCTGGCT
ACTTTTTGTATTTTTAGTAGAGACAGAGTTTCATCATATTGGTCAGGCTGGTCTCAAACT
CCTGACCTCAGGTGATCCGCCTGCCTTGGCTTCCCAAAGTGCTGGGATTACAGGTGTGAG
CCACTGCACCCGGCCCAATTGTGTACTTTAAATGGGTGAATTGTAAGGTGTGGGAATTAT
ATCTCAACAGAGCTGCCCCCACTTCCCCAAAAAAGGACCAAGAGGTGAGGAAGTGGAGAC
AATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 192>:

gnm_192

CATGTCAAAATCCTAATCTCCAAGGTAATGGTATTAGAAGGTAAATCTTTGGTAGGTGAT
CAGGTCATGAGGGTGGAGCCCTCATGAATGGGATTAGTACCCTTATAAAAGAGAACCCAG
AGAGCTCATTTGCTGCTTCTGCCATGTGAAGATACAGTGAAAAAAGAAGCAGGCCCTTGC
CAGATACGAGTTTGCCAATGCCTTGATCTTGGAATTCCCAGCCTCCAGAACTGTGAGCAG
TAAGTTTCTATTGTTTATAAGCTACCCAGCCTATGGCATTTTGTTACGGCAGCCTGAATG
GACTAAGACAGTCTACCTAGACCATTATTTCCCTTTCATCATCCACCAGCCAATTCCAGC
ACATCTTTTAGATCTCAGCTTAAATACTCCCTCCAAGACCTCCCTCTATCTCTAATATGA
ATGAAATCCATATCTCAAGTTCTTCACAGAATCCTCTACTCTTTCCTTCATGGCATTTGT
CATAATTTGTAATTATATATCTAGCAAAGTTCTTTGTTGTTAAACATCTACCTCCTCCAC
TCTCCTAGAAACTCCACAAGGACATCCCTGCACCCAGTGCCTAGGCAATGCCAGACACAT
AGCAGATGCTCCATTAATTATCTGTCGAATGACTGAATGGCTTCCAAGTTAGTTAACTGG
GCACCCTTGATAACAGATTCTGGCCTATTTGAAGGATCAAAGAAGAAAGTGGTGCTACCT
TCTCCCCTGCCACTATCTTGCCCACTTGTGGTGCCAGTTCAGGAGGTTTGGAATGGATGT
GGCTAATGATAGACGTAGACCTATTGCCTTTCTTGGATCATAATTCTGCCAGGCTCTGAG
TCCATGTGGCATCGATGGCTAATTGTCCTCCAAAATTTATCCTCTCTTCTTCCATTTATA
CCCTCCCATGGAGTTTTAACAGGGCATGTGGTCACCCTACTGGGATCTCACTTCTCAGCT
TCCCTTGCAACTGGATGTGGCCTTGTGACTAAATTCTCATGAACAGAATGTGAGTGCAAG
TGATGTGTCAGTATCTTCATCACTTTCCTAAAAAGGGAACTGCTGGTCCTCCACTTCCTC
TCTTTCACCCTTCCAATGAGCCAGAACATGCATGTGATGCTGGTGAGTCAGCTTCAGTCA
CATGAATAAAAACAAACTCCAGGAGATGACTAAGCAATAAGACAGAAGGAACCCAAGTCC
CTAGACGAGTTCACAGAACCAAGCTACCTATCCAACCCTGGGCCCACCTGGATTATAACA
TGAGAAAAACATAAGTCCTAATCATATTTTTGAAGCACTGCATTTTAGGGCTTCTTTGTG
ACAGCAGCCTACCCTCTAGTCTAATCAATATACCTCACCAAGTCTCCTGCTCCTAAGGGA
GACAAAGAAGCAAAATGAGTCTCAAAACATCATCCAAATGGAATAGATACAGACCTGTAA
TCCCAACACTGTGGGTGCCCAAGGCGGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAA
CCTGGCCAACATGGCAAAACCCTGTCTCCACTAAAAATACAAAAATTAGCCGGACGTGGT
GTTGTGCACCTGTAATCCCACCTACCCACGAGGCTAAGCCGGGAGAATTGCTTGAACCCA
GGAGGGGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGTAACAGAG
TGAGACTCTGTCTCAAAAAAATAAATAAAAATAAAAATAAATAGACCATTAATTAATAGA
TATAGCCTTGGTCTGTGACCAAAGCTCAGAATGTTATGATATTCCTTTCCTATGTCACCT
CAACTTGCCCCTGTCATCAGACAGGACAAATTCCCCACTGGTCCTTTGCACTCACAGCTG
TTACATTTGAAATGGGAGCTTAGCCTTCCCTGCCCTGGTTCCTCCTTAGACTCATTTGGG
AAAACAGGAAACGTAATTATTTCTGCCATTACCTTTATCTCATGGAGCCTGACAGAGTGT
AACCAATGGTAGGAATTAAAACACTCTAATTGCCAACTCACAACAACTCCCGAAAAAAAT
CATTTTAACTCATTATACATATTAAATTATGACATGCTTAATGTCCAAACCTAATAGATT
CAGTACTCAGGAAATCCCTTATACAGGTAGACACGGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 193>:

gnm_193

CTTAGATTAATGGGCAAAAAAGTTACAATCATGGGATGTTTGGCTTCCCTATAAAGACTA
ATGTTCATAGATTGTTTTTCAAAAATGAGGACTCCCCACTAAATGGGTCCAGCTACACAC
ATGGTCCTGCAACACGACTCAGATAAGGGGGACCTGAAGGCTAAACTCTTAACACTTTTC
TCAGTTCTAAATTTCTTCCTAAGGGGAGTAGAGGAAGTCACACCCCAGGCCAGAACTAAC
ATTCCACTGATCTCAAATTTTTAGACAAGGCTTCTCCTCCTAAGCCAATTACAAATCAAw
ACATCTTTAAATCTACCTTTGACCCATGGGTTCCCACTTTGAGACGTCCTGCCTTTTTAG
GTCAAACCAATGTAGAGCCTCCCATATATTGATTTATAACTTTGCATGTAACCTCTGCCT
TCCTGCAATTACAAATCCTTACCTATAAGCCATCCGGGAGCTTGGGACTTAAGCATTAAC

TAATTATCTTTGCTTGGTGCCCCTCCAATAAATACCCCACTTCCTCTTGCTACAATCCCA
ATATCAATGTTTGGTTTTGCTGTGCTGGGCAGGGGGACCCAAGTTAGGTTCAGTATCAGC
AAGAAGGCAAGACAGAGTGTGTGCTAGCAAGACAGAAGTCCGTGTGTTTGGTAACCTAAT
CTCAAACTGAAATGCCATCACCTTTGCTGTGTTCTACTGATTAAAAGCTAGTCACCCATA
TGTTCATTGCAGCACTATTCACAAAAGCAAAGACATTGAATCAACCTAGGTGCCCATCAA
TGGAGAATTGGAAAAAGAAAATGTGGTACATATATACCATGGAATACTACACATCCATAA
AAAGGAACAAAATCATACCCTTTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 194>:

gnm_194

CCCTTTTCTCGGTGGAATGTGCTTCTCCTTCATACATGATATAACTTGATTTGAACAATG
TCACAAAGATATTTTCTCTGTTAGATTAAAATTTTGTTTGCATGAATTTTTCAATAGCTT
TAAGCAGTTGAATAGCAATATATGCAGGAAGAAGCTGAGAGACTTATGTAATAGATATTT
CATGTATCTATAACCCACACTGCTGCCCAGGAAATGTGCGCTGCATTAATAGAGAGGATT
TTTTCCTGCTGAATACCTTGAGGAGTTGGCCAACACGTTTGGGAGTAGAAGTAGAAAGGG
CCAGGTGTGATGGCTCATGCCTGTAATCCCAGCACTCTGGGAGGCCAAGTGGGGAGGATT
GCTTAAGCCCAGGACTTTGAGGCCAGCCTGGGCAACAGAGTGAGACTCCATCTCTAAAGA
AAAAAAATCATAAArrACTAAAATTCTCTGCCAAAATGGACACAGAAAAAACTGACAATC
CAGAGAAAGATAATATGCAATGAAGCTAGACATGGCCAAATTAGAAAATGATATTGAGAG
AGAACAAGAGCAAGAAAGAGGAGCCCTCAGCATTGAGAGGGCTGAGGAAGCACAGAAATG
ACTGATGGGTTGGTTAGTTAGTTACTTTTTGTGAAGTGTGCAATGTAAATTTCACTTTGG
TCTCCCCACCGGAATCATCAACTAAAGTCTACACTGCTATATCGGCTATCTATTGCTGTG
TACAAATTATTCCAAACTCAGTGGCTTAAAACAACACATTTATTATCTCACAGTTTCTGT
GGGTTAGGGATTCGAAGATGGGCCCCTGCTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 195>:

GNMCJ15R gnm_195

CCAACCAACATGTACAGTATCTCATGTACACAGTCTTCTAAGGATTGACACTGAGGTTGC
TTCTGGATTTTTGCAATTACAGATAGTGCTGGATACAAATCTTTGCAAATATACCTTGCA
CGCATGCATGAGAATATCTGGAGAATAAATTCCTAGGGTCTAATTGTGGGTCTATTTAAA
TTTTGCATAAAAATTTGATACATGTTTTCTAACCACCTGCTCCTCCCAAGAGGTTGCACC
AGCTTACAGTCCCACCAATCAGGGAAGAGGGATTTTATTTTTTTATTTTTTTTTTTTGGG
ACAGGGTCCGGTCCTGCCACCCAGGCTAGAATACAGTGGCGTGATCATGGCTCATGGCAA
CCTGGTCTTCCCCAGTTCAAGCAATCCTCCCGCCTCAGCCTCCCCAGTAGCTGGGATGAT
AGCCGCATGCCACCACACCCAGCTAATTTATATTTTACTTTTTGTAGAGACAGAGTCTCA
CTATGTTGCCTAGGTGGATCTTGAATTCCTGAGCTCAAGCGATCCTCCCACTTTAGCCTC
CCAAAGCTCTGGGATGACAGGTGTGAGCCACCATGCCCTGCCTGAGAATTGTCTTCTCAC
ACCCTTGTTAATAGGACTATTATCACATTTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 196>:

GNMCJ16R gnm_196

GTACCCGTTTCTTTTGGTGCCAATCTTGAGCGCGCGTAAACCAGCTTCTCCGCGCTCTTC
ATAGACCTTCAGCCACCTGGCTACAGAACCACTACCAGCAAGCATAAAGTGAGCAGCAGC
CTGATTAAGGGACATGTGCTGCTCGATCACAGCTTTCACGACCTTAATACGCAACTCTGG
ATCAGCACTAACGCCTTTAGGTTTGGGAATTAAACCTTTTTCTCCATGTTTTTCATAGAG
GGCAACCCATGTCCTGACCTGGGTTCGGGGGACACCAAAACGTGCCGAGATGATCCTGTA

ACCATCATCAGTTGTGAAGTAGTGATTCACGACTTCAAGGCGCTTTTCAAAAGGGTATTT
TGGCTTTGACATATTAGGGGCTATTCCATTTCATCGTCCAACAAAATGGGTGCAGTACAC
TGGAGGGCTATCAGTACACTACCTTTACGCCCGCCACCCTCGCGTCTCGGAAGCCTTAAT
GAGCGCCCTGGCGAGACCCGCGAGCAAGGCTACGCCCTGGACAGCGAAGAGAACGAGCAG
GGCGTGCGCTGCGTGGCGGTGCCGGTGTGGAACACGAGTCCCGCGTCATCGCCGCCCTGA
GCCTGTCGACGCTGACCTCCCGCGTGGACGACGCGGAGCTGGCTAATTTACGCGAGCAGC
TTCAGCAGGCCGGGCTCGCGCTCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 197>:

GNMCJ16F gnm_197

CCTGGATCTAGGCGTACGTCAACTATTCCGCCAGCAGCAGCGTGCAGCCGGTTGAGGTGC
TCACCACCATCAAAATTCTGTTCTGCGTGGTGCCGGTGGTGCTCTACGCGGGCATGTTCA
TCATGCTGTCGCTCTACAAGCTCACCGATGCCCGCGTGGAGGCCATCAGCCGGCAGCTGA
TTAAGCACCGCGCGGCGCAGGGCGAGGCCGTTCCCGACGCCGCGACAGCGCATCCCATTA
ACCGGAGGCAATATGGAAATCACTAACCCGATACTCACCGGCTTCAACCCGGACCCGTCC
CTGTGCCGCCAGGGCGAGGACTACTACATCGCCACCTCGACCTTCGAGTGGTTCCCGGGC
GTGCGCATCTACCACTCCCGTGACCTGAAAAACTGGTCGCTGGTCAGCACCCCGTTGGAC
CGCGTGTCGATGCTGGACATGAAGGGCAACCCGGACTCCGGCGGCATCTGGGCGCCGTGC
CTGAGCTACGCCGACGGTAAATTCTGGCTGCTCTACACCGACGTGAAGATTGTCGACTCG
CCGTGGAAAAACGGCCGCAACTTCCTCGTCAACGCGCCCTCCATCGAGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 198>:

GNMCJ17R gnm_198

GTACCGCGGATTATTGTTGGTTAATGCTGGTGTTCCGTACTGAACCACCAGTTGCCATGT
CTGAAACTTAATAAAATCGCTGATCGACTTGGCGTACGATTGCACAATCACCAGTACGCC
AAACATGGCGGGCGTCATCCCTTTACCGGCACACGAGAGCGCCAACAGACCCAGCAAGGC
GCTCACGACATTACTGGAGCCTAACCAGGCGCTATTGCGAATAATGGTGCGAAACGCGCC
ATCTGCAAACCAATGTTTGATGTTAAAACCCGCCAATTCAGCCTGACCTTATCGTTGATA
GTAAAAAGTATCCCGCCAGCCTTAAGTTAAACTTCGGCGGTCAGAAACGATGGCAACCAG
AGAAACCGCCTTCTGTGCCTGTTCCAGCACTTCGCTGTAGGGCGCTCTGGAATCAATCTC
AAGAATTTTTGTGCCGTTATAGCCAATCTTCGACATGACACCGATTTTGTCCTGCAGCTC
GGCATAGTCATGGTCAGGCTTGCGGGAGATGGCAGTCTCAATATCAATGCCCAGGCGAAT
AATTAATTCCGGGCGATATTGCGCCATTTGTTGGTATAAACGCCGTTCGCGCTGCGCCAG
AAACATGCTGATTTTCCCGGTCGCACGTACGACGCCAATCCCCGGTCCATCATAATAAAA
GCCCGAAATTTCAGCCTGCGGGAAGCGATCGCTGACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 199>:

GNMCJ17F gnm_199

CCGGATTTTCCCATCAACGGTAATTTTGTCACTGCACGACCGACATTTCCGGCCTGTTTT
CCTAAATGAACTCTTTCGGCAGCACCATATTTTTCGACAACGGTAATAAGATGTTCACAC
ACCGTTGACTTGCCTGAACCATCGCTACCAATAACGGCAATTAATGGAGGTGTTATTGAC
TGCATGAATATATCCTTTAATTTAAATATCCATTAAAAATATTTATTTGGTTAATATGTT
TTTATGAAAGCGTAATTCAGGTCAATGTCACAATTAACCATTGTCACAATAAGGTTGAAC
GGATATTCTGAGCACGGACCACGTAATATTCAATACATTATTTACTGCCGGGTTTTTCGT
GAATCAACGTAATATGTCAATAATTAATTCCACGCCAGGCGTGTTATTGCCATTGTAGGA
TGTGATGGTTCAGGTAAATCGACCCTCACGGCAAGCCTGGTAAATGAACTGGCAGCAAGA

ATGCCAACAGAACACATTTATCTCGGGCAATCGTCCGGGCGAATTGGCGAATGGATTTCA
CAGCTCCCTGTTATTGGCGCACCTTTTGGGCGTTATCTGCGAAGTAAAGCGGCACATGTG
CACGAAAAGCCCTCAACACCGCCTGGCAATATTACTGCACTGGTTATCTATCTGCTTTCC
TGCTGGCGGGCGTACAAGTTTCGCAAAATGTTGTGTAAAAGCCAGCAAGGCTTTCTGCTC
ATCACCGACCGCTACCCGCAAGTTGAAGTGCCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 200>:

gmm_200

GTACCGGCGCTACCTGGCTCAAGTCCGAGCTGTGAACACTGTACGATCGCACTGACAAAA
CTCATAGTGTCACAGTTTCCTAACGCCGGAACTTTACGAATTTCTGTGGTGGCGATACGG
ATCATACGTTCAGCCGTCATATGGCGTGGAAGAGCTGCTGCCAGTTGCTCTTTCATTGAT
GGCTGGTTAATAAAACTAATCACGTCGCTATTTTTAACTGCTGCTGGTGCACGGTTTCCC
TGAGTTTTTTGCAGATCGGCTTTTGCGATTGGTGGTTGCTTAGTCATTTGCATATTCCTT
AGCCCAGCGGGGCAGTGATAATGTCTTAATAGCTGGCCATTCATCGGTATTCAGGCAGTC
AGACAGGGTTCGCAGATTGCGGTGATATTCCTGTTGACCTGCCAGTwTTGCTTCTTCGCC
CATCATGAAAATTTCAACCGGATAACGTCCGCATTCAATAGTTGTGCTGGCAACCAGAAA
AACGAAAGTTGGCTGCACTCCAAACTGTGCTTCATAACCGTCACTGTAGAATGCATCCTG
AACGTGATAGCGGTAGTCGTAATAAGCGGTTTTGAATCGTTGAATATCCGCCGTAGTTTT
CACGTCCATGATCCAGTGAAATTCAGGGATAATTTTGTCCGGACGGCACCGACACAAAAT
TCCTGTTTCAGGATCTTCCCAGTAAATTGATGATTCAGCGTGTCCGGCGCTTTCAACAAG
CCATTGCCCCAGCGGCAAAGCCATAACGCTTTGATACATGAGTACAATTTTCCGGCCTTC
TTCCGCAGTGATAACCGTTTTTCCTGTGCTTGCGCATTCCATCAGAAACGCTTTCTCTTC
TTCTTTTCCGGCGTTTGTACGGCGGTTAAATTCAGGTGCTACGATAAAGCGGTTACTGAA
TTCTTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 201>:

gmm_201

CTGCCACGAATTTTCCTGTCGTTAATGACCTGCCCGCTGAAGGTGAGATCGATTTTACCT
GGAGTGAACGCTATCAACTCAGCAAAGACTCCATGACATGGGAACTAAAACCGGGAGCAG
CACCAGACAACGCTCACTATCAAGGCAATACCAACGTCAACGGCGAAGACATGACTGAGA
TTGAGGAGAATATGCTACTCCCAATTTCTGGCCAGGAACTGCCCATTCGTTGGCTTGCTC
AACACGGCAGCGAAAAAACCGGTAACGCACGTTTCACGCGACGGACTCCAGGCATTACACA
TTGCTCGGGCTGAAGAACTACCGGCTGTTACTGCCCTGGCTGTTTCCCACAAAACCAGCC
TGCTCGACCCGCTGGAAATTCGCGAACTCCACAAACTGGTTCGTGACACTGACAAAGTTT
TCCCTAATCCTGGTAATTCAAACCTGGGACTGATAACTGCTTTTTTCGAAGCATACCTGA
ACGCTGACTACACCGATCGAGGACTGCTGACAAAAGAGTGGATGAAGGGTAATCGTGTTT
CACACATCACTCGCACGGCTTCCGGTGCTAATGCTGGCGGCGGAAACCTCACCGATCGCG
GCGAAGGTTTCGTACACGATCTGACGTCACTGGCGCGCGACGTAGCCACTGGCGTACTGG
CCCGTTCAATGGATCTGGACATCTATAACCTTCATCCGGCACACGCTAAACGCATTGAGG
AAATTATCGCTGAAAATAAACCGCCCTTTTCTGTTTTCCGCGACAAATTCATCACCATGC
CTGGCGGGCTGGATTATTCCCGCGCCATCGTGGTTGCGTCCGTAAAAGAAGCACCAATTG
GGATCGAGGTCATCCCCGCGCACGTCACTGAATATCTGAACAAAGTACTGACTGAAACCG
ATCATGCCAACCCTGATCCGGAAATCGTGGATATTGCCTGCGGTCGCTCCTCTGCCCCGA
TGCCGCAGCGAGTAACAGAAGAAGGAAAAACAGGATGATGAAGAAAAACCGCAACCATCTG
GAACAACGGCAGTTGAACAGGGAGAGGCTGAAACAATGGAACCGGACGCAACTGAACATC
ATCAGGACACGCAGCCGCTGGATGCTCAGTCACAGGTAAATTCTGTTGATGCGAAATATC
AGGAACTGCGGGCAGAACTCCATGAAGCCCGGAAAAACATTCCATCAGGAAATCCTGTCG
ATGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 202>:

gnm_202

CCGTGTTTGCATCAAATGACTGGCCTGTTCAAGGACCCATTGACCCAGCAATGTGTGGTT
ATTATGAAACCAGAGGCAGAACGAGCTTTCTCTCTTTACCTAGGGGGCTGGGAGTATTT
CAAGTGTCTTCCGATTTTTATAACCCGCAGTCCTAGAATTAACCCCGCACCCCACTGCCA
TTTACTCTCTCAATGTAGAGTTGCTTTGAGTAGGTAACAGCTTAAATTCTTAGAAAGCTG
AGCCCCCTAGAGGAAATTTCTAAGGTCAAGCACTCATTTGCAACTTTTTATTCGCTAAAA
ATGTAGAGAAGGGAGAAGTCAAGAATAACACTGCTAAAAGGGAATTTTATTTTATTTTAT
TTGTTTATTTATGAAATGGAGTCTCGTTCTGTCGTCCAGGCTAAAGTGCAGTGGCGTGAT
CTCAGCTCACTGCAACCTCCTTCTCCCAGATTCAATTGATTCTCCTGCCTCAGCCTCTTG
AGTAGCTGGGATTACAGGCACATGCCACCATGCCTGGCTAATTTTTATATTTTTAGCAGA
GACGAGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCTTGACCTCAGGTGATCTGCC
TTGCCTCAGCCTCCCAAAGTGCTGGTATTACAGGTGTGAGACACCGCACCCAGCCTAAAA
AGGAATTTAATATGGACAAAGAGTACGATCCACAAAGGAGAGACAACTTTATGAGCCCCT
TTGAGCACAGCATAATACTGTCTCAAAATATAGAATGTGCCGGCTGCCGTGGCCCATGCC
AGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGAGGATCACTTGAGCCCAGAAGTGCAAG
ACCAGCCTGGGCAACATAGTGAAACCTCATCTCTACAAAAAAATTTAAAAATTAGCCAGG
TGTAGTGGTGTGTGCCTGAGGTCTCAGCTACTTGGGAGGCTGAGGTGGGAGGATCACTTG
AGCCCAGGAGGTCGAGGCTGCAATAAGCCATGATCACACCACTGCACCCAAGCCTGGGTA
AAAGAGTGAGACTGTGTCTTGGCCGGGCGCAGTGGCTCACGCCTCTACTCCCAGCACTTT
GGGAGGCTGAGGCGGGTGGATCATGTGAGGTCAGGTGTTCAAGACCAGCCTGGCCAACAT
GGCGAAACCCCGTCTCTACTAAAAATACwATAATTAGCTGGATGTGCACATGCCTGTAAT
CCCAGCTACTCAGGAGGCTGAGGCAGGAGTATCACTTGAACCCGGGAGGCTGAAGTTGCA
GTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTCAA
AAAAATAAAAATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 203>:

gnm_203

CCCAGTCCTGAGTATTTAAAATGTTTCATTTCTGTGCTGAGAGACAGAATTAGCACTTGA
TAAGGTTGCATAAAATGCCTGGCACACAGGAGATGCTCAGAAAGCATTTATCCTTTCACC
CAGCTTCATAACCTCTTCATAAAAAAAGTTGCAGACACCTCTCCTCACATGCACAGAGAA
ATATGGGACTATTCAAAGAGATGGACCAGCCACCTCCCTTCCCTCCCTGGGTGTTTTGCT
GCTCAGAGAATTCTGATGCTTAGATCACATCTTGGGAAAGGGCTCCAAGGCCCAGAGCTC
ATGCGCTTGCCTGTGGATGGTGGAGGTATTCCTCATGTTAAAGTTGGAGGAGCTGATCCT
CTCCAGAAACGCCTGGGCCAGCTCAGGTGTGATGTCATAGACCATGTCCAGCTGCTTGGT
GGCGTTGTCATAGCTGATAAACAGCCCAATCTAGTTGGTGGACAAGGACGAGAATATCAG
TGAGGAGGGTGGAAGTGGCCCAGTGTGGCCCCACCCTGGTGGTCTGCACTGTGCCCCATC
ATGGACACTTGGATACACCTCCTGGTTCTCATTGTCATTGATGTCTTTTTTTCTTTTCTT
TTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGACAT
GATCTCAGTTCACTGCAACCTCCACCTCCTGAGTTCAAGCAATTCTCCTGCCTCAGCCTC
CGGAGTAGCTGGGACTACAGGTGCCCACCACCACGCTTGGCTAATATTTGTATTTTTAGT
AGATATGGGGATTCACCATGTTGTCCAGGGTGGTCTCGAACTCCCAGCATCAAGTGATCC
ACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTAACGACCATGCCTGGCCTCAT
TGTCATTGATTTCTTAGTGGTCTGTAACTGCTACTTTAGTTTCCTCCTCAACCTAACTAT
TCTTTAGGAAAGAATTATTTTTTAATATCTGAGAAACTGGGCTTTTTAAAAGCTAATCTT
TGCACATTTATTTCTAGATTTGTTATATGGAGGTCAGAGAATGTGGTCCACAAACTTTCT
GCGTTGAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 204>:

gnm_204

CCCTGGAATAGCATAGTTAGGAGTGTGGGCCCAAACTGGATTTGAATCCTAGTTCCATCA
CTTAGTTGTGTGGCTTGAGACAATTTGATAAATTTTCTTGTGCCTCAGTTTCCCTTTATA
TGAAATATGGTTAACAACTGTGAGATTAAAATTTGTTCACACATGAAAATTGCGTAAGAC
TGTGCCCAACACACAGTAAATGCCCATGAATAGCCTTTTCTCATTTTTATTTTTTTTTTT
GGAGACAGAGTCTCACTCTGTTACCCAGGCTGGAGTGCAGTGGTGCAATCTCAGCTCACT
GCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTTCCAAGTAGCTGGAA
TTACAGGCGTGCACCACCACATCCAGCTCATTTTTCTATTTTTAGTAGATACTGAGTTTT
GCCATGTTGGCCGGGCTGGGCTGGAACTCCTGGCCTTAAGCGATCCTCCTACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGATAAGCCACCATGCCCAGCCTATGAAAAGCCTTTTGTA
ATCTTACGTTTGCTTCTTTGTTTGTTTGTTTGTTTGTTTTGCGATGGAGTCTCACTCTGT
TGCCCAGGCTGGAGTGCAGTGGCTCAATCTTGGCTTATCACAACCTCAGCCTCCCGCGTT
CAAGTGATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTATGCACCACCATG
CCTAGCTAATTCTTTTGTACTTTTAGTAGGGACAGGGTTTCACTATGTTGGCCAGGCTGG
TCCCGAACTCCTGACTTCATGATCCGCCCACCTTGGCCTCTCAAAGTCCTGGAATTATAG
GCATGAGCCACCGCGCCCGGCCTGTAATCTTATAAAGAGATGGATGGATGGATGGATGGA
TGGATGGATGGATAAATTAATAAACAAATAAAATACTTAGACTGAAAGAATATATCCAAA
AGTACCCATTGGTGTTATCTTAGGGAAAGGAGTGGTTATGGGAGTCTTTCACTTTAACAT
AACTGGGTATCCCTGATATGAGGCCCCAAGACCCCTATTTCTTATCGATCATAGTACTCA
TCATATTAGAATTGTTTATTAATATTGGCGTTTCCACACTACCTAGTTCCCTGCCCCATG
TCCCTGGTATCTGTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 205>:

gnm_205

CCAAACTAAATTGTTTGAGCTGCTGTCATCTGGGGGTCTTTTTGTTATAGCAGCTCAGCC
TATATCCTAATATACCATGTCTCCATCAAAGGTGGGAAAATGAAAGAAAGACAAAATAGC
TTATATCATGTTTCAAGAAAAACTGGACAGAACCCTTTTCCTTGCAGAAGCAAAGACTAT
CTCTACATCCAGCCCACTTCTCCAACTTACCTGGCCCCTGAGTTTGCAATCCCTGAGCAC
TGAGATGGGAACATATAGATGGGTCTCAGGTACACACCTGCAGGCTGGGGATGGTGAAGG
CAACATTCCGGGAATTCAGATAGGCCAGGACTCTGTGGGACAGGTCATCCGTCCACACGT
GGGAGCTTCAGTTGAAGACAGACAGGAAAAGATCACAATGACAGATTCTCCTACAAGCAC
TACTGTACTAGCTAAGTGCCCAGGGGACAGGTAGGGATGGACCAGGGGTGTTAGGACTTT
GTACTTGGAAGTGGGAGGTTTCTCTTTTCTTTTCTTTCCTTTTTTCTTTTCTCTTTTTTT
GAAACAGGGTCTTGCTCTGTTGCGCGATCACGGCTCACTGCAGCCTCAATCTCCCCAGCC
CAAGTGATCTTCCAACCTCAGCCACCCAAGCAGCTGGGATCACAGGTGCATGCCACAACA
CCCAGCTAATTTTTTGTAGAGATGGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACTC
CTGGGCTCAAGCAATCCTCCCACCTCTGGCTCCCAAAGTGCTGGGATTACAGGAGTGAAC
TGCTGCACCCAGCCTGAAGTAAAAAATTTCTTAACCAGGCACAGTGATAGGATAGTTTCC
AATTCTAGGAATCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 206>:

GNMCJ23R gnm_206

AACTCTACAAAAAAATACAAAAATTAGCCAAATATGGTGGCACATGCCTGTAGTCCTAGC
TACTTGGGAAACTGAGGCAGGAGGATCACTTGAACCTGGGAGTTCAAGGTGGCAGTGAGT
TATGATGGAGTCACTGCATTTCAGCCTGGGTGACAGAGTGAGACTCTATCTCTAAACCAA

ATTTTAAAAAAGTATCTATATGTAATATAAAAACCACAAGTGGGCCGGGCACAGTGGCTC
ACGCCAGTAATCTTAGCACTTTAGGAGGCCGAGATGGGTGGATTACTTGAGGTTAGGAGT
TCGAAACCAGCCTGGCCAACCTAAAAAAATTTTTAAAAAATACAAAAAAAAAAACCCCAAA
AAAACCCACTAAAAATACAAAAAAAAAAAAAAAATTAGCCGTGCATGGTGGGGGGTGCCTG
TAATCCTAGCTACTCGGGAGGCTGACGCAGGAGAACTGCTTGAACCTGGAAGGCGGAGGT
TGCAGTGAGCTGAGATTACACCACTGTACTACAGCCTAGGTGACAGAGTGAGACTGTCTC
AAAAAAAAAACAAAAAAAAAAAAACACAAGTGAGCTCATACTATACATGCTGTCCTGTTTA
TATATATAGCTAAGATATATATATGTATAAAACTATATATATATAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 207>:

GNMCJ23F gnm_207

CCAGCCAACAGAGAAAAGCTGGGACAAGAGACAAATGACATCATTTGCACCCCTAGATCG
AGCCATGCCTGAAGTCCCTCTCTGAACTTTCCAGTTACCTGAACAAAAAATTCCCTTTTA
TTGCATAAGCCAGTTTCAGTTTCAGTTCTGTTGCTTTCAACCAAATATCAACCTGATATA
ATTGGCTTCATGTTTGTCTATTCCCTCTCCCACCATGAGATTATAAGGTCTTATAAATTA
ATAGGAATTTCTAAATCTTCAGATAGAAAATTTAGCTATCTGAGAACTAGCACACAGCAA
GTACTCAATGAACTTTTTTTTTTTTTTTGAATGAACGAAGACAATAAGAGCAAAAAAAGGT
AGAGGGAAATAAAGAAGGAGAGAAGGAGAGAAACAATGTCCAGATCATGTTTGAAAAGCA
GGGCCACCCTGCAGGCCCAAAAGCTCACACATGCCAGGAGAAACGCCTACTGCTCCCCTC
AACTCTGATTCCCCTGGAGCCTGGCACAGCCGCAAAGCCAGGCCAGATGGGACCTGCCTC
ACTGACACTCATTCAGGCTTGGGTTGCTTTGGCTTGGTTTTTAGATAACAGGAAAAGCGA
GAAGGTCTGTCTCAAATGTCTGTGTGATACTCAGAATTGAAATCCTGGATCTCAAGGGCT
TAACTCTCTAAGGCATCCTCCACTCTGCCTCTGGTTCCTGAAGAAACCCAGTGGGGAGAG
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 208>:

gnm_208

CATGACAACTCACCAGCCTGTATTCCACCCGAATGTAAGCTTCTGTGGGCAGGAGGCTCA
TCTGTCTTGTTCGCTGCCATGTTGCTACTGCCAAGCAGTCCCCAGTAGGCTGGTCATGGC
TGGTGTCCACGAACATATTTGTGCAGCATATGGGTGAACATACACACGTCCTTTCTGAAA
CAAAATTGAACTCAGTAGGACACTCACTCAGGCAAAGATTGGGAAGCTTTAGATCCATTC
TGGAGGAGGGGGAGATAGAATCAGAATATATTCATTTAACAAACATTTATGGGGAACCTA
CTTTTTTGGCAGACCTCATGCTACAGAAACAACAGTACACAAAGCCCTGCTTTCATGAAG
CTTACAGTCTACCGGGGACTGGGAGAGGCGGACCATAAACACACACATGCACACATATAC
ATGTTCACATCCACACACCCCTGTATCAGATAGTGATAAATATTATGGAGCAAAGAAATC
TGGAGGAAAGGATCGAGAGCTCCAGATGGTGATGGTAGGGATAGGGGTGGTGCAGAACAA
GCTTTAATAAAACATTAGGTGGTCAGTAAAGGCTCTGCCCTCAAGAGGGATACAATCGCT
TCTTAAAGGTCCCACCTCTCAATGCTCCCACTTTTGGGATTCAGTTTCAACATGAGTTTT
GGGGGGTCATTTGAATCAAAGCACATGGTGTCCTACCATCAGCTCTAAGTTTACAGCCTA
ACACTTCCGCAATAACAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GATCTTTCCTAGTTACTTCAGCAAAAGTCCCCAGGTTAGGTCTGATTGGGCTTGCTTGAG
GCAGGTGCCCATTTCTGATCTGACCACTGTGGCCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 209>:

GNMCJ24F gnm_209

CCGCTTCTCTTCTTACTATTTCAAGATGGCTGCCCAATTCATGTGCAGAGGAAAGAGAAG

TTCTTTCTCTTTACTCTGACAGTTGAATAAAAAATCCAAAGCCTGGCTCTCTTTGGTCCA
TCCCTGAATCAGTCATTATGGCCTGGGGAATGGAGTATGCTAATTGACTTAAGGGAATCA
GGGCCCAGCACTGGAGTGAAGGTGGGGCTAATGCCACCTAATCCACTGGAGAGTACCAAA
AGTGTGCTTCCCCAAAGGAAATTCACAATACTGTGGGAAAGGATGAATTGATGCTGAGTC
ACTATGAATGACAAATGCAAAAGATAAACATACCAGGCCCCACTCCTTGCAGGAAGCAAA
AGATCCTAGAGGGAGAGGCTGACATGGAACAGGATGTCTGACCAATAAAACTTCTTCCAA
TGAGGATTCACAGACATAGTCATACCTTCCAGGTTAAGTAAGGCTCAATTCCAGGCAGCT
GTCTGTCTCAGCTCCTCATGCACATCCGTCGCTTCTGTCTACCCAGCATTTGTTTCTCCC
TTATTCAGTTCTCATTGCTGTGTAACAAATTGACAGAAGTGCATCAACTAAAGCAACACA
AATGTATTATCTCACAGCTCTATAGGTCAAAATCCAAGCACGGCTCAACCGGATTCTCTG
CTCAGGGTCTCATGGGGCTGAAAATCAGGTGTCAGCTGGAGCTGTAGTCTTATCTAAAGC
TCAGGGGCTTCTTCCAGGATGATTGGGTTGTTTTCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 210>:

gmm_210

ACTACAGGCATGCACTACCATGCCCAGCTAATTCTTTTAGTTCTTGTAGAAATGGGTTCT
TGCTATGTTTCCCAGGCTGATCTCAAACTCCTGGCCTCAAGCAATCCTCCCATCTCGGCC
TCCCAAAGTGCTAGGAATACAGGCATGGGCCACCATCCCTGGCCACACAATTGTTTTTA
ATTTAGTTATAGTAGTCTGTACCACTGTAGGATGACAATAGTTAACAATAATATATAGTT
TCAAATAGCTAGAAGGAAGATACTGAACAGAAAGAAATGAGAAATGTTTGAGATGGTAGA
CATGCTAATTACCCTGACTGATCACCATACATTATACACATCAAAACATCTTTATGTACC
CCATAAATATGTACAATTATTATATGTCAATTTTTTTTTTTTTTTTTGAGATGGAGTCTC
ACTCTGTCACCCAGGCTGGAGTGTAGTGGCGCAATCTCGGCTCACTGCAACCTCCGCCTC
CCAGGTGCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATAACAGGCATGCGC
CACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCGCCATGTTGGTCAG
GCTGGTCTGGAACTCCTGACCTCTGGTGATCAGCCCACTTCAGCCTCCCmAAGTGCTGGG
GATGCCGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 211>:

gmm_211

ATACCTCTCCAACCCCATGTCCTACTGTTATATCCTCTTCGTGCAATTTACTGAAGAACA
TGCAAATTATGCTCCTAATATCAAAGCCTTTGCACTGTCATTTTCTTTTCTTTCTGGAAC
TTTCTTTCTCCAGATATTCCCGTGGTTCATTCCTTCACttCCtgaGGTCTCTGCTTAAAT
GTCACCTCCTCAGGTCTTCCCTGACCAAACTGTCTATAATAGTACCTGCTCCTTCTTTGG
CTCCTTTTTCCTACCCTGTTGTATTTTTCTCCATGGCACTCATCACTCCCTGACATAATA
TAGTTATTTGATTATCTATTTTCTGCCTGGTTCATTCCAACACACCAGCAGGGAGTTAGT
TTTGTAAACTGCTGTATTCTCAGAGCATAGAATAATGCCTGGCTCACAGCACTACTCAAC
AAATATTTGAAGAATGAAAGCATGAAATAATTACACAAACATAAATATGTATTATAGCTG
TGCTTGGTGCTATAAAAGAGAAGTATTGGCCTTTTCTTCTGGCTAATTGCTTTGGCCTGG
TCAGAGAATTCAGGGAAGGCTTCATTGAAGACTTGAAATTTACAATGAATTGATCTTAGC
CGGGCAAAGAGGAAGGGGAAGAATCCTCTGGGCCGAGGAACAGCCTGTGAGAGGGTCTTA
ATCTGGGGAGGATAGCACCTTGGAGGGACAGACAGATGGCCCGGGCAGGAACCTTGGGGA
ATGAGGGGCAAAGAGGAGGGTGATACAGCCACTGGAAAAGCTTTGGGCTTTATCTTGAGG
GTAATGGGGAGAGGCGGAGGGTGACATGAGTTTATTGAGATGGTGTTTTTCAAAACAGCA
TCTGTTTGAAAACAGCAATCTGGTTTCTTTGCTTATTaATAAACTTGTATACAGAGCTGA
CTTTGTGTCAGCCCTGTTTGAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 212>:

gnm_212

CTAAAATAAAGCCTGTTTTATAATAAAGTGTTGAATATCTCACATAATTCATTGAACATT
GTACTGAAGGGGCAAACCAGAATGGTTGTATGGGTACTTGAAGTACAGTTTCTACTGAAT
GCACATTGTTTTTGCACCATTGTAAAGCTGAAAAATTGTAGATTTAACCAATGTAAGTTG
GAGACCATCTGTGTTTTGTTCCTCCTTAAkGCATACAAAAGTGTAGCCAAAGAGTGTTTC
AAAGCTGGATTACATAATGAATTATTATTATTTTTTTTTGAGATGAAGTCTCGCTTTGTT
GCCCAGGCTGGAATACAGTGGCGTGAGCTCGCCTGACTGCAACCTCCGTCTCCTGGGTTC
AAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCCTGGAATTAC
AGGCACACGTCACCACACCCAGCTAATTTTTGTATTTCTAGTAGAGACAGGGTTTCGTCA
TGTTGGTCAGGCTGGTCTCAAACTCCTGACCTCAAATGATCTACCCGCCTTGGCCTCCCA
AAGTGCTGGGTTTACAGGTGTGAGCCACTGCACCTGGCTGAAAATCCAGATTTTTGTCCA
AGATTGCAGAATAAATTGCCTGGGACAAGTCAATGAGTGAGGAGAGATAAGTCAATGGAC
TGAGAAGGGGTAAACTCAGTCTTGCATAAACAGAATACAGAGGGGATTTGGGTGGATGGG
GAGCAGTGAGTGAATGGGCAAAGATAGGACAAAACCAAGCCCACTTAAAGAACAATAATA
TTACAAAGGACAAAGTTGAGAATAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 213>:

gnm_213

TAATGTTTTTCTTCTTTTCAAAGATGTAATATTTCTGTTAACACTATAGAAAGATAAGAA
AGATAAGAACCTTCAGGGCTCTTTGAAGACAAAATTGTATTCTGAATTGGGCATTCATTA
GACTGAGCGGATAAATCTCTAAATCTGGGTTTTATGATTTTAGGTTTGTTTGTTTAATGG
ATTTCTTTGCTTAAACTTCAGGTGCATGCATGATAATTTTGAAGAGCAGAGAGATGGACA
AATGTGATTTGATTTATAAGTCTTTTCAAAGGCATTTGAAAATGTATTTCAGGTTTAGTT
AAGCTTATTTTTCACACTCTTAGTTGAAGGCAGGAGTGATTGTTTTCCTCCCTCCACACC
TCGAAAGATGGAATGGTTTTTCACTTATAAATTTTTCCATCTCAGAAAAGGAGGAGCAGA
GGTTTTCCAGAAGGGTTAAGAATAAAGGTGGGGAAGGCAAGCCCTTGTTACCATAAGAGC
AGGAATCCATACGGAAGAGTGGCTGGTTTAGATTTGCTGGCTTGAGAGTGGATTATTTTA
TCCAACTCTTGATCAGTGTTGTGAGAATTAAGTAAGATAATGGATTTAAGGGGCTTAGAA
GTGTCCAATCAATGTTAGCTACTGTTGTTATTCTCAGTACTACCTGTAGGCTTGATGGAT
ATATTTGGAGACATTTGTACCAAGGGTTATGGGGCAATAAGTGCGTGGTTCCCATTTGGC
CCAGTGAACTTTTCAGGACTTAGGATGAGGAAGGCGGGAAAAGCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 214>:

GNMCJ29F gnm_214

CCGGCGCGATCACAGCTCGTTGCAGCCTCGGGCTCCTACAGCTTATGCAATCCTCTCACC
TCAGCCTCCCAAACCCACACCACCAAGCCCAGCTAATTTTTTGTATTTTTGGTAAATACG
AGGTCTCACTTTGTTGCCCAGACTGGTCTTGAACCCCCGGCCCAAGTGATCCTCCCACCT
TGGCCTCCCAAAGTGTGTCTCCCCACCTACACTCCCATTCTTTCCCTTAAAAAAAGTCTG
AGTCTGGGTGCAGTGGCTCACACCTGTAATGCCAGAGCTTTGGGAGGCTGAGGCAGGAGG
ATACCTTGAAGCCAGGAGTTTGAGACCAGCCCAGGCAACACAGCCAGACTCCGTCTCTAC
AAATAACACTTTTAAAAAACTTACCCAGGATACCCAAAGGACTATAAATCATGCTGTTTT
AAAGACACATGCACACATATGTTTATTGCGGCATTATTCACAATAGCAAAGACTTGGAAC
CAACCCAAATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATATGCCATG
GAATACTATGCAGCCATAAAAAATGATGAGTTCACATCCTTTGTAGGGACATGGATGAAA
TTGGAAATCATCATTCTCAGTAAACTATCGCAAGAACAAAAAACCAAACACTGCATATTC
TCACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGGACATCACA
CTCTGGGGGCTGTTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 215>:

gnm_215

GTACCCTTCTTTAAAATCTTCAAATATCTAATCAGGGGTTCAAATTTCCTCAATTGTCTC
ACAATTTTTTGGGTTTTTTTGAGACAGGATCTTGTTCTGTCACTCAGGCTGGAGTGCTGT
GGCATGATCATAGCTCACTGCAGCCTTGAATTCTGGAGCTCAAGAGATCCTCCCATCTCA
GCCTCCTGAGTGGCTAGGACTACAGGTGTGCATCACCACGCCAGGCTAAATTTTAAATGT
TTTTATAGAGATGGAGTCATGCTGTGTTGCCCAGGCTGGTCTCAAACTCCTGGCCTCAAA
CAATCCTCCGCCTTGGCCTCCCAAAACACTGGGATTAGGTGTGAGCCACTGTGCCTGGCC
TAATTTTTTAtTTTATTTTATGGTATTTTTTGTTTGTTTGCTTTGTTTCTTTCTTTTTTT
TTTTTTTTTGGAGACAGAGTTTCACTCTTGTCATCCAGGTTGGAGTGCAATGGGATGAT
CTCGGGGsACTGCAACCTCTGCCTCCCGGGTTCAAGAGATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGATTATTAGCATGCGCCACCATGCCCAGCTAAGTTTTTGTATCTTwAGTAG
AGATGGGTTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCTGC
CCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCAGACATGAC
GTGTTTGAATCAGGATCCAAATAAAGTCTAGATTCTACAAGTGATCAATCTTTTGTTTTT
GAGTTAATAGGGTCTCTTTCTCTCTCTCTCTGTAATATATTGGCTAAAGAGACTAGGTTG
TTTGTTTTGGGGAGTTTCCACAGTCTTGAATTCTCTGGCTGCACCTAGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 216>:

gnm_216

CCAGTCTGGAGTGCAATGGCGTGATCTCGGCCCACTAAAACCCCCACCTCCTGAATCTAA
GCAATTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGACTACAGGCTCACACCACCATGCCC
GGCTAATTTTTGTATTTTTAGTAGGGACGAGGTTTTGCCATATTGGTCAGGCTGGTCTCA
AAGTCCTGGCCTCCGGTGATCCACCAGCCTCAGCCTCCCAAAATGCTGGGATTAGAGGCA
TGAGTCACCATGCCCAGCCTAAACTTGGCAAGATAATAAATCACCTTTTTAAGTGTCGTT
GGGCACTTGTCTGGTTGTTTTTCTTTAGGTTACCATGCCAGCAATGATTCCTTTTGAGTT
TCTGACAGAAGATAGTGGTTTTCATCCAAATAAGTCAACTACTCTACCCCATCCCTAAGC
CACTTGTATGGAAAGAAAAAGAGGAAGAAGCCAGTACTGTGACTGCGTAAGCGTCCCCCA
GCATCACCGGCTATGAGATGTGTGGCAGCTGAGACCCGGGAACTGCTCAAGGGCACCAGG
CCCCATCTGTCTGCACTCACTCACCTTCCTCAGGTACTCGCATGGGCATGTCACTGACTT
TACATGCTGCTGCAGCTCCTTGGTGAGCTGGCCCTGGTCATGGGACAGGAACTGTGGGGT
CAGGACAATAGAGAGCTTCACCATTTGCAGAATGAGCACAGGGGCTCATGATGAGTGCCA
ACCTATTAGATAATTTAAAAAAAAAAGTGTTGAATGAGTGGAAAAACAAGGTGATGTTTG
AGTCTATAGTGGTCAAGGGCTTCAGAAAAGGACAGACCCAAGTTCAAATCCCTGTACTTT
GAATTTCTACTTCATGCCATGCAAAATTACTTTACCCCTTTTAACCTCAGTTTTCTTCTG
TGTGAAACAGGAACAATAGTTTCATTCGTCATTCAGTTTCTCTCAAGATTTCACGAGATC
ATACCTATAAAACATCCAAGTCATTTAAATGTATCATCATTTCTGTCATAATTAGTGGGA
TCCATTTCACTATTATTGGATATACAGTTCTGTGCCTGAAACCTACAAAAAAACAAAATG
TTAAGTCTAAAAAGCATTAGTGATTTCTCATTTTTATATTACTAATTATAACCCTATTTA
ATCACACAAGGCCTTGTCCGCGGCAGGTGCTCAATAAACACTTGTCGAATCAATGCATGT
GGGCTCCGGAGCCACACTGTTTAGATTCTATTCTGCCTCCACCACTTATCAGCTGTGTGA
TCTGGGTAAGATAATTCACCTCTTTATGTCTGCACTTCCCTCTCCATAAACTATATATAA
TGAGAATCCTTAGCTCATTCGGTTGTGGTGAGGGGTGAATGATTTGGCACACAGGAGGGG
CTTGTTAAACATTAGCTGTGATGATCTCCTTCCAAATCTTCATTTTCAGAGCCACAGATG
AGGCCATAGTGCAACCAGGTGACCTTAGAGTGTAAGTACACATGATCGCCAGCTATGCTC
TATCTCCACCATAGGTCCAAGACTGGGTAGTTCTGGCCTGGAGGTTTCTGCTGCATCTGC
CTTCTCAGTGTTCACCTAAGGACTTTTGTATTTTCCTCCTCGCATCCCCACAGATGGGGT
TCAGGCTGCCGGACACAGCTGGGTGATGCCAGGGCAGTGGTCACCTGTGCCAGCCCCGTG
AGGTAGCTGGAGGATCATTGTTCCTTCCTTCTCGGGCTCTGGGCAGATGCCAGGGCTGGG

GTGACCCATGCCCTCAAGTTTCTTGCTTTGGTGGCCACATTTTCCCTTGGCAAAGAGGG
TAAAGGTCACAGGATGCCGGAGAGCTGTGACTTCTCTGTGCCCTGGGCCCAAACTATGAA
GACCTGACACACTATGCTAAAAGTCCAACGCTGGGTGCTCCCCAGAGCTTCTTGCCTCAC
CGCTTCTGCTGAGGGAGGAATGAATACTATGTCCTCCCAGAGCTTTGGGAGCTTGTAGCA
AGCAGCCTCCCCAGCGCAAAATCTCTTGGAAACCTCTAACTGTGTCTGAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 217>:

GNMCJ31F gnm_217

CCACAAATATAACTTTAGCAAATATTTAGCATAACTATCAAAATTACAAATCATATTAAA
TTTGTATAAATGTATGCAATTTTCGGAACACGCATATCAACAACATACCCATAAATATAA
CTGAGATGAGATCTAATGTCACCTCACTTGACAGTGCCCTCCCATGCAGTATCGCCACAT
TTGACAATGCCTGCCCATTTAATCTACCAAATAAATCGAATCACTTAATACCTCTACAAG
ATGAGAGATACATTCTTTAGACTCCCCAAGGGATGCAGCTGAAAAAAATCCCAAAGTTAG
TTTTAAGCCAAAAAGACTTGATTTAGGATTTTGACACTGGAGAAACCCATCAAAGATGTC
AAGTTTGAAAACACTTGATCAAAACAGAATCACAGGTCACTATTAAAAGAGTATTAATTT
AACCAGAGACTTCCAAAGCAATACAGAAACTTACATGGATATAAAAACCCTAACCCTTTT
AAAGGTCAGATTTGCTAAGTGATCAAAAGGGGTACTTGAATTGAATCGACACAGGAAGAG
TGTGTACAGGGTTATGAGTGTAGGCAGGTGGTTACTTTGGTCATATCTCCATTTGCCACC
TGATTACACATGAGAATGGCATCTTTACTCACCAGAAAGCCAGTATTATAGGAGGTGTAG
GAGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 218>:

GNMCJ32R gnm_218

GTACCATTATGTTCCTTAAAACAAATGACTCCCCTGTCTACTAGGCATTGTTCTAGAGTG
CTCATTGGGGGGTGGTTTGAAGACAGTGCATGCTGCTAGCTGCAGGTACTTTATTGCTGG
TGCTTTCTAGCCCATCCTGGTTTATTCTGGATGCCTGGTGTTCAGAACCTGGCAGGTGC
ACATGTGAATAGGAGACACAGGGAGTTCTCAACTGGTCAGCAGCTTCCTAAAGCACAGGA
AGTAAAACTCCAGCCCTGCCACCAATGTCTTTGCCTCTCATCTGCCTCATGGGGTGTAGA
GAATCATCTGGAGTGTGAGAGTGGGGCTCTGGAATTACCTTGACACTGGTTCAAATCCAG
GCACTGCCACTTAGCAATGGTCTAGTCCTAGGTAACTCACATAGCCTGTTAAGCCTCCAT
TTCCCCATCTGTAAAATGGGATTGTGGAATGCCTTCCTGATAGGGCCTCACAGTGTTGGG
CACACGCTGAGTGTGCATCAGTGCTAACGATCATTCTCTTCTTGCAGGCTCTGTTCCTGT
ATGAGCTTCTGTTAAAGACCACCAGAAGGCCTGAGGAGCTTTTGAGGTAGGAAAATGTAA
CTCGGCCTGGGTGCTGAACAGGCCTTTCAGAGCCTTCTGCCAGAGCAGCCTACTTTTCCA
GGTGGGAGAGTTAGGCAGTCACATCTGTAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 219>:

GNMCJ32F gnm_219

CCGGGCAACTCTTCCTGCTCGAACATGTAGGTCTTCCTCAAAGCAGGTCTAGCTTCCATC
CATTTGCTCAGTTATTGGCTTGCCCACCTGGGCAGGTCTTTTAATATAGTTCAGTGGTTT
GTACCAGCAAACTGATTAGAAATGCAAAGTATTAGGCCTCACCCCTTACCTACTATATGT
AAAACTCTGGGAGTGGGGCCCCCAATTTGTGTTTTTACAGCCTTCCACACAATGCTGATG
CAAGCTCAACTTTGAGAATCACTAACAGAATTAACAGTCCAAGGGAATGAGAGAGCTTCA
TTAAAACTTTGCATATTCCTGTAATGATCTTGAAGGATTATACACCAAGCACTCTATGCT
TCCTGGTTTTCTGGGAGATAATTTACTCTTTGGAAATTCTTCATTCTGGTCTGAAACACA
AGGCCAGAGTTGAGAAGGTGCTTTTTAATATCCATTACAGGAGTCTGTAAGCCAGCGGTT

CACACCAAAAGTTCAAATGCTGTAAGGCCTGTGTTTACTAGCTTAGACACTGAAAAATCA
GTCACTGGCTGGGTGAAGTGGCTCATGCCTGTCATCCCAGCACTTTGAGAGGCTGAGGCA
GGAGGATCACTTGAGCCCAGGAATTTGAGACCAGCCTGGGCAACATATCAAGACCCTATC
TCTGCAAAAAATAAATAAATTAGCCAGGCATGGTGGTGTGTGCCTTTAGTTCCAGCTACT
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 220>:

gmm_220

CCTGACCCCATCAGCAGAGCCTAGGTCACAAGCCTCTAAATTCCAAGGCCCATCACCTGT
TTCCCTGTGTGATTTGAAATGGGGTCAAGCTCCCATTTCTCCTTGAAGAACTGAGCACCT
ACTTTGAATATCTCATCAGGAAGGCATTTTATTGCTGATGGCTGGAAATATGGCATCAAA
TCCTTGTCAAGCATCCGGAGCTCTGCCTTAGTTAATCCAGCTGGGGAGAAAAAGGAATCA
CGGGGGTTTAGTTCAAGCCATCAGAACTCCGCTTGTTTTATTAATGGTGCTGCATAATGT
TCAGATCTGAGTGTTCTAGGCAGGCATCATTCCTTACAAAAGGCCCTGGAAATCACACTG
GGGAATCAAGTTCCTTCATCAACTCAGAAAAAAAAAAATGTGGGTCACATTAGCCCTGATT
GGCCTCCTACAGTGAAACGCATGCCCAGAAGGAACTTCAATTTACACACTTTCAAATTTT
GTATAAACCTACTTAGGGGCCAATTAAATCACATTCTAAACTAGCGGTTTTCCAAACTTT
AGTGTACACAAGAATCTCCAAAAGAGCTTGTTTTAAAAGCAGATTTGCAGACCCACCCTC
TGCAACTTCAAATCATGAAATGTAGGTTCTACTGTAACGCCACTGATGTTTGCTACACAT
GGCCAAGGATAATGTTTTATTTTGTGTCCCCACATTTAAGTTTGGAAAGAGAGAGAAAGG
TATGCTCAGGGTGAGTCTTACCTGCAATGGTCCCAAGCTCCTGCAAGACAGAACTGGTCC
ACTCAGTGGGATCCCCAAACACAACTTCAGCCTTCCTCTTAAACTCGGCTAAGACATGTG
TGCTGCAGAGCAGGGTCCCAATTCTGGCCACTACCACCCTGGTAGTGGTTAAAGAGGGAG
GGATATAATATGAGCTTGGACTCTTCAGCCAAAAACAAACAAACACACACACACACACAC
ACACATACACACACACACTGCACAGTAGGCTCAGCAGGGACAGCAGATCCAGCTTATCCC
ATTAGCCCAGTGGGATTTTAGCCCAGAAAGGTGCCAAGTGTCAGGAGGTGGAATATCTGG
ATGGATGGATGGATAGATGGATGGATGGATGGATGGATGGATGGATGAATTAACCCATTT
GCCATTTTGCACATTCATATTTTAGTTACCTGAATTCTGAGATCTTTATAAGTGGGATTT
CAGTGATGTTTATAGCACACAGGGTTGCACCAAGTCCTACCAAATGAAAGCTCTTCAGGT
CCTGGATACTGTATCCTGAATCATCCAGGTACCCTTGCAAAATGGATTCAGCCTAAAAAA
TAGTAAGAATAAAAGATAAACCATCCAGGGATGATCCAGGGTCCCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 221>:

gmm_221

CCGGAATCTGTCTCTTATCATGTTTTTGAACTTTGCTTTTCTTTGTGTTGGCTTCATTGA
GAGACAGGCTCTATGCCTGCATGTGGTAGGTTCCAGCAGATCCTTGTGTATATCCTTCTA
AGTTCAAGTCCAGAGTAAAGAAAGCTCTTCCCCTAATGCTCCACTCAAAGTTCTGGTTGA
CTCTGGTTAAATCACATGTCCAATCCAGAACCAGTGACTGCAGCTAGGCTAAGGTATGAA
TTGAAATTCATCACTCCTGGAACTTGGTGCAGTTAGCTTTGACTGAACCACATGAAGCAG
GAATACAAGAGAGGTGGTTCTCCAGAGGAAGTTATGAATGATGAATAGCCACTGTGCTAG
AATTATGGAGACTTATGTGTCAGCCGCCTTAAATCAAGGCTTAGTTTAAAATAGTTTAAC
ACCAAAGCATTTTGTGTGCTACTCTTGGAATTGAAGAGTAAACATTGGAATTGAAGGGGT
GAACATATTTCTGTAGGACCACAGAGGAAGAAAAAATCATTAAGGGGTAAACATATTTCT
GTAGGACCATAGAGGAAGAAAAAATCATTCTGGCTGAAACCTCATGAAGAAGGTGACATT
TGAGTTGAACCAAAGAAAAAAAAAAAAGAATGTCTGCACTTGGAAGTGCAGAAGGGCATT
TCAGATGAAAGGACTGGTTTGAACAAAGGCAAAGAGACAGGAAATTATAAGGTTTTGTTG
GAGGTTGTGGAAAGGCTGGGTGCGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGC
CGAGGTGGGTGGATCACTTGAGGTCAGGAGTTTGATACCAGCCTGGGCAACATGGTGAAC
CCCGTCTCTACAAAAAATACAAAAAGCCAGATGTGGTGATGTGCACCTGTAATTCTAGCT
ACTTGGGTGGCTAAAGCACGAGAATTGCTTGAACCTGGGGAGGTGGAGGTTGCAGCGAGC

TGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCCGTCTCCAAAAAACGAAAAA
AAAAAAAAAAAGGGAGAAGAAACGTTGTGGAAAAAGATGCTGGAAAAGTTTGGATCCTGA
TGCAGAAGAAGTTGTATGTCCAAACTGTCTGAGGGTCATAAGAGTGACTGAAGGAAATAA
GCAGCAGACACACAGGACACAAGTGCCTTTAATATTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 222>:

GNMCJ35R gnm_222

CGAAGCCGATATATGCCACCATATAAGCGAAAAAGAGTCCGGGATTTTTTGCTCGCCAGA
CATACACCGGTTCCGGGCATTTTTAACCCGTTTATCAATCGCGCCTGCGCGCCACCTTTC
CATGCTTCGCGGAAACAAAATATCGGGATAAGGAAAAAAACGGCAACGACAAAAAAACTGC
TGTACATCCATAACTACTTTCCTTGTTTCTTTTGTAATTCAAGTAACTGTTCGGGTGTGA
CGGCGGGATACCCCTGCGCATCTTCCGGTACCTGGTGCATAGCCGGAATAGGGACCAGCG
GCCCTAAAAAACGCGGTTCACGTTTAAAAATATAAAGGTCAGCCAGCGCACCGAAACGGG
CGGCAAATTCACGAATACGTACTGACAGCATATCTTTCGGTGACGGTACGGCATAACACT
GAGCCTGAATCCCCATATGCAGCGCAATAAATAATGCTCGCTCACAGTGGAAACGTTGGG
TGATAATAATGAAATCATTAGTATCGAAAACTTTGCGTGTACGACGATGGAATCCAGCGT
ACGAAAGCCTGCGTAATCGAGAACAATATCTGATGGGTCGACACCAGCAGCGATTAAATC
TTTGCGCATGGTCATCGGCTCATTATAACTTTGCAATGCGTTATCGCCGCTCAGTAATAG
ATAATTTACCTTACCGCTGTTATAGGCATTAATCGCTCCTTGAATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 223>:

GNMCJ35F gnm_223

CCGATGTATGTTTCACGCGTTGCATAATTAATGAGATTCAGATCACATATAAAGCCACAA
CGGGTTCGTAAACTGTTATCCCATTACATGATTATGAGGCAACGCCATGCATCCACGTTT
TCAAACCGCTTTTGCCCAACTTGCGGATAACTTGCAATCTGCACTGGAACCTATTCTGGC
AGACAAGTACTTCCCCGCTTTGTTGACCGGGGAGCAAGTCTCATCGCTGAAGAGCGCAAC
GGGGCTGGACGAAGACGCGCTGGCATTCGCACTACTTCCGCTGGCGGCGGCCTGTGCGCG
TACGCCATTGTCGAATTTTAATGTTGGCGCAATTGCCGCGGTGTGAGCGGAACCTGGTAT
TTCGGTGCCAATATGGAATTTATTGGTGCGACAATGCAGCAAACCGTTCATGCCGAACAA
AGCGCGATCAGCCACGCCTGGTTGAGTGGTGAAAAAGCGCTTGCAGCCATCACCGTTAAC
TACACGCCTTGTGGTCACTGCCGTCAGTTTATGAATGAACTGAACAGCGGTCTGGATCTG
CGTATTCATCTGCCGGGCCGCGAGACACGCGCTGCGTGACTATCTGCCAGATGCCTTTGG
GCCGAAAGATCTGGAGATTAAAACGCTGCTGATGGACGAACAGGATCACGGCTATGCGCT
GACGGGTGATGCGCTTTCTCAGGCAGCGATTGCGGCGGCAAACCGTTCGCACATGCCTTA
CAGTAAGTCGCCAAGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 224>:

GNMCJ38R gnm_224

CTGATAAAGACATAGCTGAGCCTGAGGAAGAAAAAGAGATGTTTTTGTTTGTTTGTTTGA
GATGGTGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCA
ACCTCCACCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGATTAGCTGGGATTA
CAGGCACGTGCCACCATGCCCGGCTAATTAAAAATATTTATAGTAGAGATGGGGTTTCAC
TGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCCATCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACTGCACCTGGCCAAAAAAGAGGTTTAATTGGAC
TTACAGTTCCACATGGCTGGGGAGCCCTCAGAATCATGGCGGGAGGTGAAAGGCACTTCT
TACATGGTGGCGGCAAGAGAAAATGAGGAAGATGTAAAAGTGGAAACCCCCTGATAAAACC

ATCAGATCTCGTGAGACTTATTCACTATCATGAGAACAGTATGGGGGAACCTACCCTAT
GATTCAAATTATCTCCCACCAGTCCCCCCCCCAACAACATGTGGGACTTACAGGAGTACA
ATTCAAGATGAGATTTGGGGCCAGGCGTGGTGGCTCATGCCTGTAATTCCAGCACTTTTG
GAAGCTGAGGCCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 225>:

gnm_225

AAAAAATTAGCCAGGCGTGGTGGCAGGTGCCTGTAATCCCAGCTACTTGGGAGGTTGAGG
CAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGCCACTAC
ACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAAAAAACAAACAAACAAAAAAACAAC
AAAAAATTCAACCTGGGAGGTACAAATTCAATAGGTTTGTGACAGGGCTTTGGAATCCAC
ATATTATAAAAACTCTTCAAGTGATTCCAATGTCAGCCAGAACTAGTGACCAACAATAAT
TCACATCCCATGGAGCTCCACATGGGCACTCCTGTGAGTGCAAAGCACCTTCCGGTCTCT
GGACACACTGAACTCAACCATGAACAGAAATACGGACTAATGTACAGCTGGTATTTGAGT
TAATTATGCCAATCATGGAAAAAAACAGACACAGCTTCTCACCAAAGGGTGTAACTTCCA
ACTTCTCCTAAATAGCGCTGTTCTAAAGCTAGGCACGCCCATGTGGGCAGACTGAATTCA
ACCTTCTTTCCCATGACCAACACTCTCCTGACCTCTAGGAAGCCACAAAATCGTTGCAGA
GAAGGAAAAGCCTTCTATATTCTTTCCCCCACCAAAAAAAAAAAGAAGAAGAAGAAGAAA
AGTCAAAGCCTAAAGTTTTTAAAATTCTAGATTAATAAGTTGGTTTGGGCTAGTTACAAC
TCAACCCTTGGAAAGAATAAAGGAAATACTGTTAATTACCCCATATGAGATTTTAATAGA
GAAAGGCTTAAGGGAAGACCACCACCTAGTGACCAAAGGCAGGATGACATTTTCAGAGCA
CCTAGCTGGGCTGGCAGGCAGCAATCTGTTTTCTCTCCAAGTGTACTGAGAAGGGAACGT
GGGCCAGGCACAGTTGTTCACACCTGTAATCCCAACGCTTTGCGGGGCAGGAGGCGGGCA
GATCACTTGCGGTCAGGAGTTCACAACCAGTCTGGCCAACATGGTGAAACCCCGCCTCTT
CTAAAAACACAAAAATTAGCCAGGCATGGTAATCTGTGGTCCCAGCTACTCGTAAGAAGT
AATGCTATAAAGTGTACAAGTGGTAAAATGCAGAAATTAAACAGTTATGCTTTTCCATTA
GCCACGCCCTCACAGACAGCATCTGGCTTACAAAAACAAACACTGAAAGTTACAACAACA
AAAGTGAAACATACTTCACCAAACCCAAATTCAAAGCCTTGGAAATAGACCAATTATGCT
AAGTGCTAAATGACATGGCAGCAAATTACTCATATAAGGAATCGTTTTCAAGTTTGCTAA
ACTATTTTAATTCTTTCAATCTAAAGCCTTAACAAAGATGAGCAGCACTAGCTGTTTCCA
CCCTTTGATTATGATAAACTTCATCTCCACTTTCATTAATAAACTGCTAACCATATTAAA
CAATCCTTCCGTGGAATCTGTCCCACCACAAGTTTGATTTGCTGTTTCTTCAGCATCTTC
AATATCTGCCGGGATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 226>:

GNMCJ39R gnm_226

GGGCTTGGCTGATCCATGGAGATATCTGCAGCTTGCCAGCAGCTGAAGTCTTTATTTGCC
TTTATCTCCGTTGTGGCCTCTGATGAGCCAGACTACAGAGATGCTGATGAAATCTGGGAG
GCAATGGTGGAGGCTGTAGTTTCCCAGGAGAACTCTGGCCCTGGGGAATTCCTTCCAGTC
TCTGAGTCCCTGTGGCACATCTCCATGTGTGGCGGACTAGGTGATTGCTCCTAGTGATTC
TGCTTAGTTCCTTTATTAGAATTATAAGCTTTTTGCCATGTGACTTTGTAGTACATCTCA
ATAGGTAGAGTCTAATTCCTTGCCCTTCTAACTTTGGGCTTTGGTCATTGGAATGTGAGC
AGACACATTTTCCCCCAGCAGAAGTTTTAAATGTGCTGCATGATTTGACTTGACCTCTTG
GCAATTGCGTCTCATGTGAAGGGACATGTGGAGCAGACCTGAACTCAACCCAAACCTTGG
AGCCAAGCTGAGCTCAGCAGAACCTAGCTGAGCGCAGCCAAGCCAAACCCAGTGTAATCA
CAGCCAATCTGGAGACTCAGAAGCAAGAAACAAATATATGTGATAGGGATCTATTGGGAG
TTGAGAGCAATTTCTCTTTTTTAAAGTAATTGTGATCTTTTGAGATGGAGTCTCACTTTG
TCACCCAGGCTGGAGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 227>:

GNMCJ40R gnm_227

CAATAACTTTTTTTGTATAGCCATTCATTGTCTAGATCAATGACAGAACAACATATTTTC
TTTTTCCCTCAAAAGCCCGAGTGATCATTAAGGAAGGCGATGTAGATGTTTCAGATTCTG
ATGATGAAGATGATAGTAAGTATAAAAAGGTTTAAAGCCTGGGCACAGTAGCTTACACCC
ATAATCCCAGCATTTTGGGAGGCCAAGATGGGAGGATCACTTGAGGCCAAGAGTTTGAGA
CCAGCCTGGGCAACATAGTGAGACCTTGTCTCTGCAAAAAAACATTTTTTTTCAAATATT
TTCTTAAAAAAGGCTTAAAGTAGAACTAGGCAGGGTAGTGTGTGTCTTTAGTCACAGCTA
CCTGGGAGGCTTAAGTGGGTGGATTGCTTGAGCCCAGGAGTTCAAGCTCTGCCTGGTGGC
AAGACTCTGTCTTCTTTAAAAAAAAAAAAGTAAAGCACAGAATACCTGGCATCTATTCTA
ATAAGTAGACTGCAACAAATGACAACTTTTGATGTAATCTTTTTGTTATATTTACCATTG
ATATGCAGTCAGTTGTCCTGAATGCATTATTTATATAAATAGTCCATTTAATTTTCATTG
ATGCTGGTGGAGAAAAGTCTTGAAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 228>:

GNMCJ40F gnm_228

CCGGGAGGCCGAGGCAGGCAGATCACAAGGTCAGGCGTTCGATAACAGTGTGGCCAATAT
GGTGAAACCTTGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGTAGGTGCCTG
CAGTCCCAGCTAATGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGAGAGGCAGAGGT
TGCAGTGAGCCAAGATGACGCCATTGCACTCCAGCTTGGGCGATAGAGTGAGACTCGGTC
TCAAAAAAGAAAAATAAAAATAAAGACAGAAAAAGAAAGAAAAAGACCTAATATCATCTA
AAATGAAATCATACAAACAACTTTTCCATGATGTTCTCAATGAAAAGATTTCTTACCAGT
GTTCTCTCTGATTTTCGAACAAATGGAAATTTTTCCACCAGTATTGGCATGAGAAACCAC
GGTGCCCTATTTTTAAAAAATTAAATCAATCCATGTTGACTTTACTTTCTAGAAAAGGAA
TAAAAAGGAAAACTACCATTCTAAAAGCAAATATCGATAGACATAGGAGGCAAACAGGAA
CCCTTACCTCAAAGAACTGGAACTTTTTTTGTTTTTTGAGACGGAGTTTCGCTCTTGTTG
CCCAGGCTGGAGTGCAGTGGTACAATCTCGGCTCACTGTAACCTCTGCCTCCCGGGTTCA
AGCGATTCTCCTGCCTTAGCCCCCAAACAGCTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 229>:

GNMCJ41R gnm_229

ACCCTGATGATAAATTAACAACAGAATAAAGGTCACTCTGGTTTTACCCTAACAAAACTC
AAAAGGAAGCATCAAAAGGATCAAGCTGATTTGAAAGTAACTTAAGTGTATGACAGAACA
AAGCCCAATACTCTTCAAAGAAATACAACTAAATCAAATACTCAACAATGTAAAATCCAC
AATGCTCATCACCCAATCAAAATTGCTAGGCTTGCAAACAAAAAAAGAAAATATGACTCA
TAACTAAGAGAAAAATCAGTCAACAGAAACAGACTCAAAAATGACCATCATGAGGGAATT
AACAGTAAGGATATGAAGGCAGCTCTTATAAATATGGAATAGTTAAAAGACCCAGAAACA
TCCACCCACCTGTCCCGGGGTCCATTCTGTTTGCCAGCTTAGGGAAGCCACAGTGTCTAT
GGAGCTGAGGTCCAGCTGCTCCAGCTCACTCTCATTAAGAGCCAGAGCAATGCGCCCCCAG
GGAGACGATATGGTGTTCTCTCCAGTAAGATGGCATGTCCCAAACCTTTAGGCAAAAAAA
GGAAATAGATTAGACTGAACACTGTGATGGTATTTACAATGATTTGAATGTTTGTGCCCC
TCTAAAATGCATATGTTAAAACCTAATCTCCAATGTGATAGTATTGGAAGGTTGGGCCTT
GGGAGATGATTAGGTCATAAGGGTGGAGCCTCATGAGTGGGTTAGTGCCTTGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 230>:

GNMCJ41F gnm_230

CCTGATCCAAATAACAATATAACAATAAAAAACAATACACATAAAAATACAGTAGCATTT
TTGACATAACATTTTGTACATATTTACATAGCACTTATATTGCATCAGGTATTATAACTA
ATCTAGAGATGATTTAAAGTATACATGAGGATGTGCATAGATTATATGCAAATACTACAC
TATTTTATATAAGGGACTTGAATATCCATGGATTTTGGTATCTTTAAGAAGTCCTGGAAC
CAATCCTTGGTGGAGGTATCCACAGGGGCAACTTCATTTTATTTATGGTTAGTTCTTATT
TATTTAGCTAATTGTTAGACTTTCAGGTTGCATTAAAAAAATGCCTCAATGTATGCCTTT
ATACATATACTGTTGGGTACTTGTCTCATTTACTCAGGCTAAATTCCCAGAGGTGGAATT
TCTGGGTCAAAGAATATAAATACTTTAAAAGCTTTTGATACAGATAGCCAAATTGCCCTC
TCAAGAGTATGTACCAACTTATATTCTCAACTACAACAAATGAGGGGTACCCTTACCTTG
TATCTTTCCAGTATCGTAAATGGTGATAAGTCTTTATACTTCTTGACATGTGAAGAATCA
ACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 231>:

GNMCJ42R gnm_231

CGAAAACTGTCTAATGCGTAACCGGAAAAGGCGTTCACGCGCnATCCGGCCACTTTCAGT
TTTACTCTTTCTCGGAGTAACTATAACCGTAATAGTTATAGCCGTAACTGTAAGCGGTGC
TGGCGCGTTTAATCACACCATTGAGGATAGCGCCTTTAATATTGACGCCTGCCTGTTCCA
GACGCTGCATTGACAAACTCACCTCTTTGGCGGTGTTCAAGCCAAAACGCGCAACCAGCA
GGCTGGTGCCAACAGAACGCCCCACGACCGCGGCATCACTCACCGCCAGCATCGGCGGCG
TATCGACAATCACCAGATCGTAATGGTCGTTCGCCCATTCCAGTAATTGACGCATCCGAT
CGCGCATCAGCAGTTCAGACGGGTTAGGTGGCACCTGACCGCGAGTAATCACATCAAAGC
CTCCTTTGCCAAAATGCTGGATCACTTTGTTGAGCTCATCTTTACCTGCCAGATATTCCG
ACAAGCCATGTTCATTACTCACGGTAAACAGGTTATGCGAATAACCACGGCGTAAGTCGG
CATCAATAAATAACACTTTTTGATCGGACTGGGCGATCACCGCTGCCAGAGTTGAACTGA
CAAACGTTTTACCACTGTCTGGCGTCGCACCGGTGATCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 232>:

GNMCJ42F gnm_232

CCGGCAATGGCTGGAACAGAAAGAGATCCCGGATCCCTATCGTAAAAGTCAGGACGCATT
TGAACATGTCTACGGTATGTTGGAGCGCGCCAGTCAGGAATGGGCGACGCCTCAGCCGGT
AATTTGAGTTTATAAAATACGATGACAACTAAAAATATGAATACGCCACCAGGCAGCACT
CAGGAAAATGAGATCGATCTGCTTCGTCTGGTCGGCGAGTTATGGGATCACCGTAAGTTT
ATTATCAGCGTGACCGCGTTATTCACGCTGATCGCTGTCGCTTACTCGCTGTTAAGCACA
CCAATTTATCAGGCAGATACTCTGGTCCAGGTTGAGCAAAAACAGGGCAACGCCATTCTC
AGCGGCCTGAGCGATATGATCCCTAACTCATCGCCCGAGTCTGCACCGGAGATCCAACTG
CTGCAATCGCGCATGATTCTCGGTAAAACCATTGCTGAACTGAATCTGCGCGACATAGTT
GAGCAGAAGTATTTTCCGATTGTGGGTCGCGGCTGGGCGAGATTAACCAAAGAAAAACCA
GGTGAGCTGGCGATCAGCTGGATGCATATTCCACAACTGAATGGTCAGGATCAGCAACTG
ACACTCACGGTTGGGGAAAACGGGCACTATACACTGGAAGGTGAAGAGTTCACCGTCAAT
GGTATGGTCGGACAGCGTCTGGAAAAAGATGGCGTTGCGCTGACTATCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 233>:

GNMCJ43R gnm_233

ACCCGGCGGAAACACCCGCAGCAGCCGCTCGGTGCCGAACAGTTTGACCAGCCCCGAAAA
CAGGACATACATCAGCCCCGCCGCAATGAGGCCCCCGCCGCCGCTGCCGGGCCCATCTC
CTTGATGACCAGCGCCGTCGGCGAnTAAAAGGCGAACGAACTCCCCAGGAAAATCGGCAC
CTGCCCGCGCGTGACAGGTGAAAAATCAGCGTGGCGACCCCGGCCCCGAACAGCGCCACC
GAGGGCGACAACCCCACCAGAATCGGCACCAGCACCGTGGACCCGAACATGGCGATGGAA
TGCTGCAACCCCAGCACCACCCGGCGCTGCGGCGGAGATCGGGAAGGGGGGGCGGCGCG
GCAGTCTGCGTCATGGGAAAGTGTAGTGGGCAGGGGGAGGAGACGAGAGACAGAAACAT
GCTTCTGCTGTGGCCTTCTTTTCGCTGCTCCACGTCCAACGGAGAAACGCAGAACGCCAG
GGCCGTCGTGCACGAATGCGGnAGCCTCGCGTCTGTAGAAATCACGAGCATCCAGACCAC
CCCACGCACTTGAGGAACACTGACCTGCACGCGCCATCACCGCAAGGTGCATAGCGCCAC
GTTTAAGGCCCCTGCCCCTCTGGGGTAAGGGGTTTAGGGGCGGGGCAAAAAGCTAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 234>:

GNMCJ43F gnm_234

CCCGGCTGAACAACCTGCTGCTGGTGCTGATCGGGCTGGTGGTGGTGCTGACGGTGCAGC
TCGTGGGGACCACCCTCAGCGTCACCTGCTGATCACGTCCAGCGCCGCCGCCCGCCTGCT
CTCGCGGACCTGCGGACCATGATGCTGCTCGCCGCCGCTCTGGGCATCCTCGGCGGGGTC
AATGGGCTGTATGCCAGTTATTACCTCGACACCGCGCCGGGGGCGACCATCGTGCTGGTG
AACACGGCTATTTTTCTGCTGGCGCTCGCGTTTCGGCGGAAGTAAGGGCGCTTCCCTAAC
CCTCCACGGGCAACAAGCGCAATTCGCCCGTGTCCGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 235>:

GNMCJ45R gnm_235

GTAATCCCAGAACTTTGGGAGGCCGAGGCAGGTGGATCACAAGGTCAGGAGATCGAGAGC
ATACTGGTCAACATGGCGAAACCCCATCTCTAATAAAACTACAAAAATTAGCCAGGCGTG
GTAGCGCACGCCTGTAGTCCCAGCTACTCAGGAAGCTGAGGCAGGAGAATCACTTGAACC
CGGGAGGCAGAAGTTGCAGTGAGCTGAGATCATACCACTGCACTCCAGCCTGAGTGACAG
AGCCAGACTCCATCTCAGAAAAAAAAAAAAAAAAAAAAAAAAATATATATATATATATAAAT
ATAAAACCAGTCTAGGATCAGACTTCAAGTTTCACTGAGCTGGAAGTGGCTGCCAATGCT
CCCCAGCTCTTTAGCAAAAGACATTTACACACGATATTGTATTGGAGGCATTTGGGGAAA
ATGAAGGAAGTGGGGAGCATTTACAGGGTGCAGTGACTCTAACATCAAGAGCTAATTACA
AGAGCCGTGGGCAATGACAGATGCCAAAACAAGATGGAGGAATCAACTTTTATATAGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 236>:

GNMCJ46R gnm_236

CCTTCCAAGGTGCCAGCTCTGGAACGAAGGATGCCCTTGGGAGGTGATGACACTCAGGTA
CACGGGTGCTCAACAGATTGCTTCCTCCTATCCTCAGACGGTCTTTGCATGCATGCAGCC
ATTGGCACTCCCATTGTGTGGAAGGAAACCAGCCCAGGGTCACACAGCTGGTCAGCAGCA
ACATAGCTGGTCTCAAATCTAAGGTGCCTGACCATGCCTCCATGAGGGACCGCCTCCAAG
GGAGGTTGATCCTGGCTTTGGGGAGCCTTTCCTGGGCTGCACGAATAACCTCCATTGTTC
GAGACCCCAAACTCTGCTCACATCTTCCTTTCCCTATCTCTGCTTGGGCTATGATCACGG
TGACTCTAGCAGCCCTTCATGGACATTATAGTACTCTCTGCCATTCACTTTTGCTCTAAT
CTGACTTCAACCCCCCACTTACTTGGTCTCTCCTTTTACAACCACCACAACCGAAATCTAG
GGCTGCTTTTAAAAAATTATTTTTTTGAGACAGAGTCTCATTCCATTCTGTCACCCAGGC

TGGAGTGCAATGGTACGATCTCGGCTCACTGCAACCTCCGCCTCCCGGGTCCAAGGGATT
GTACTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGTGTGCCACCATGCCTGGCTAA
TTTAAGTATTTTTAGTAGAGACGGGGTTTCACATGTTGGTCAGGCTGGTCTCGAACTCCT
AACCTCGTGATCGCCTGCCTAGCCTCCAAAGTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 237>:

gnm_237

CCTGGTACATTTACAAAAATTAACCTGACTTATTTTGTTCCAGCAAATCTCAATATATTT
GAGAGCAATCAAATCACACAGCATGTTTCTGATCATATAACTGTGCTAGAAGTCAATGAT
TAAAAGCTAATTCAAAATTATTATTTGCTTGGAAATTCAAAGTGCCCTTATAAGACATAA
ACATAAGAAAGAATCCAAAATGAAACAAGATTGCCTTTCAACTCAATGATGAGATCATAA
CATGGCAATAAAATGTCTCCCTCTGGCCTGGGAATTCCTCTTTGTGGCACAAGGTTGTGT
GATCTCAAATCACCGCTAACCCACCTAGACATTTTAACATCCGAAACCGAGTGATGACGT
CCTTATCTATATCATCTTACTGCCTGTGTGTGTGGACTTTAAATTCTGAACCCAAATGAG
GGGGAGAAAACCAAGTTGACTTTCATGACTGAGCTCTCAGGGACGTCCAAGGAATCTGTG
CATTTCAAGAAACAAAGTTCATCAGCTTCTCTCCTAAGGTATTTGCCCACAATACCCAGA
GGGcTTGGCAGCATCATGTGTGATGGGTGGGGAGCTCCAAGCAGGTGGGCAGGACCCAGG
GGCCTGGTGACCAGGACAGACCCCCACTGTCCATCACCTTTsCTGGCCCTGTCCTCTGCT
AAACTTCCCACAGGCCTTCTGCACGATCACACAGAGTATGCCCAAACTCTCTCAGGCCTC
TGGCAGCTGAAAACCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 238>:

GNMCJ47R gnm_238

CGGGGGGAAAAAAGAATAAAAGGATTTAAAAAATACAACTATGTTATTTTGGGATGGAAA
TTCATCTGATATACACACGTTCAAGGTGTCCAGATTAGTGCCTTATATCACACCCCAACA
CAATACACAATTATGGTGCAAGCCTGTAAACTGACCTAGGTCATGAAGGAATTTAAATAT
AATAAACCAAGCCCCTTTTACTACATACTTATATAAAATCGACAACTATCACATGATGCT
CTATGTCAGGTAGCCTCAACAAATTCAACATTTATTCTAGCTCTGATATGGTCTGGCTCT
GTGTCCCCACCCAAATCTCACTTTTATAATTTATTTTTTTGAGGCAGAGTTTTGCTCTT
GTTGCCCAGGCTGGAATACAATGGCAAGAACTTGGGTCACCGGAAACTCCGGCCCCCAGG
TTCAAGAGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACTG
TGCCCAGCTAATTAAGTATTTAAAGTAGAGATGGGGGTACTCCATGTTAGTCAGGCTGGT
CTCGAACTCCTGACCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 239>:

GNMCJ47F gnm_239

CGGGTCAGGAAGGGATTCCTACGGAAGTGATTTTTCCTGTTTGGCCTTTCTTAAGGGCAG
ATTATAATTATAAACAGTTAAAACTTTGTTTAAGGAGGCCCCGCACTAAGGTGCAGTGGGA
ATGAAAGGAAGTGGTAGATTCTAGTGACATTGTGAGGAAAGGTGAACTGGTCCTTGAGAC
TGGTTTGGAGGAGGGGAGGCAGACAGTAAGGGAAAGGAATCCTTCAATAGTTGCTCCCTG
TGGAATCGAATCTTGGTGTTGCCATTAATGGTAGTTAGAAATATGAAGAGGAGGCTGGGT
GTGGTGGCTCACGCATGTAATCCCAGCACTTTGGGAGGCCGAAGCGGGCGGATCACGAGG
TCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACTCTGTCTCACTAAAAATATAAA
AAATTGGCCGGGTATGGTGGTGGGCACTATAGTCCCAGCTACTCGGGAGGCTGAAGCAGG
AGAATGGTGTGAACCTGGGAGGTGGAGCTTGCAGTGAGCCCAGATTGTGCCACTCTGCTC
CAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAGAAAAAAAAAATATGAAGAA

GAGGCAGTTGGAAGAGTAGTTCCATCTTGGCCAGGTTCAGTTGCTGGTGGGCAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 240>:

gnm_240

CGGTAGGTTTCAGTTCCAGCTCTGCCTCTTATTGACTGCAACCTCAGGCTTAACTTTCAG
TCTCTGAGCCTCAGTTTCAACTCTGTAAAATGAGGTGGCTATACCATCTCAGGTTGCAGA
GAGAATTAAATGAAATATAAGTGCATGTAGAGCATTGAACCCAGGGCCTGGCACACACAG
TGAGTACACAATGTTAGCCAGGTAGCTTCATAATGCATACTGATTGTCAATATTCAGACA
ATGCAGTAAAGTGTTACCAAAAATAAAAGTAAACTTATTTGCATATGTATTCTTTCAATC
TTTATTTTTAAACAGGGTAAAACTATGCATATTCTTTCATAGCCAGTGTTTTTCTCTTCA
TAGTATATTGTTAAAATAATTTTACTTGGACCGGGTGCAGCGGCTCACACCTATAGTCCC
AGCACTTTGGGAGGCCGCGGTGGGCAGATCACGAGGTCAGGAGTTGACACGAGCCTGGCC
AATATGGTGAAACCCCATCTCTACTAAGAATACAAAAATTAGCTGGGCATGGTGGCACAC
ACCTGTAGTCCCAGCTACTCAGAGGCTGAGGCAGAGGAATTGCTTGAACCCGGGAGACAG
AGGTTGCAGTGAGCCAAGATTGTGCCATTGCACTCCAGCCTGGGGGACAGAGTGAAACTC
TGTCTCAAAAAATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 241>:

GNMCJ48F gnm_241

CCTGACTCAATGTCACTCAATTGATTCTGAGTTCACTGCTGATTACATCCGACCAAACTG
CTTTTTCTGAAGTCTACTCCGTTTAATCATGCTGGTGATGATTTTGTGCGGCTCTGGGAC
AAACTCCACCTGGCTGAAGATAAAGCAAATCTGCGGTGACTTAGTCCTCCTGTCATTTCC
CATCAGTTCCCCACTCTCCTCCTCTGCCCCTCCACAGTCTCCCATGCAGGCTGACACCAT
ATGACGGCCTTAATGGAGTCCACCGAGTATTTCAGGTTCTCTCCTGGGCCACTTGAAAGT
GGATGTACCCATGGGATTTGCTTTGACCCAGGAGATGTGCGTGGAAGTGAAGCGTGTCAC
CTCGAGGCAAAAGAGTTGGGAGCCATTGAGACGGGCCACTCTCTCCTTCATCTCTTAGAG
CAGCTGACAGCTCCCATATGGAGGCTGCTCCTTTATTCTCGTGGCAGGATGAGGGCATGT
GGGGCACAGGGCACAGGAGAGCCATGGAGGATGTGCAGCATGGGCAGGAAAAGAGCCTTC
AGTGGTGTACATTTCCATAGTTTGGGGCTGTTTCTTACCTACAGTGATACCTAGCCCATC
CTAACAGGCATGCACCATCTACTCCACACTCTGTGATGCAGACTAGCCTGCCGTCAGAAC
ACGAACTGGTGGTCAGACACAGGTAGGTTTCAGTTCCAGCTCTGCCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 242>:

GNMCJ49F gnm_242

AAGTAAGTTCGGAAAAGTACATTTATATGTCACCATTACTAATACACTTGGGGTAAGGTG
TATTCTCAAACTCTAATGTTCATCCAGCCAGTCAAGGTGCCTTGGAAATTGTGTACCCTC
CTCAGCCCAATAGACCTTGGGCCTCTGAAGAAAACTATTGGAAGAAAGTTTCAAGTGGGC
AGTCATGGGATTGTTTTAGTGTGGAAGGGCTAAGAAAAGAAAAAGAATTGTGGACAACTA
AGATCACATCTCTGATGTGAGCAAACATGATTTAAAGGGATTGTTGGCTATGAACCAAAA
ATCATTTAAGGGTATTTTTGTACTGGAGAAGGCCAAGGACAAAAGATATAAAGTTTCCCA
TCCTTGGGATCATGAACTCAAAGCAAAAGCAAAATGGATTAATAGCTACTTCTATTTATA
GCTACTTCTGTTAATAGCTACTTGAGCATGAGCAATGGTTAGATTTTAATTCTAGAGTTT
ACAGTGGAGAAATACACACATTCTAGGATTACTTAACTCACTAGTCAACCTGTCCCTCTC
CTTATGATGTTGACCCAATGACACTAAAATCCCTTGGGCATCATGATTCTTGAATGCGGT
CTCCAAAGAATGCTGCCAACACAAAGGGGATCATGAAGAGACTGTGGGCCTTGCTTCCAA

TTTTTCTTCTTCTTCTTCTTCTTTTTTAAGTCATATGTGCCCTGACTCTTCTGGCCAGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 243>:

gnm_243

GTACCCCTACTAAAAACACAAAATTAGCCAGGCATGGTGGTGCATGCCTGTAATCCCAGC
TACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGC
CAAGATCGCACCATTGCACTCCAGCCTGGGCAAAAAGAGCGAAACTCTGTCAAAAAAAAG
AAAAAGAAAGAAAGAGAGAGAGAGAGAGAGAAAGCAGAGAGGCTACTGCAGAGAAAAGTC
TAGAAGGATGGGTTCATGGGTTCATCGAGAGACAATAGCTTAACAACCAGCACACCATAG
TTGGCAAAACACTATCATTGAAAAAAAAAACATGCTCAAAAGGGGAAATGCCAGTTTGGGT
AAATATGCTTTTGTGTTGGAGAGAAAGAATTTGGAACAGGCTTTTCAGACCCCCTTAAGG
CCCAACAAACAAATTATAATTTAGACAAGTCTGGGATTCTTCACAGCTCAGCTTGTGGTG
ATGGTATTAGCTTCACAACTCCAAACAAGTTAAGCTGTCTGTGTGAAATCTCCTCAACAA
CACCTCACTGGCAAACCTGGAGGTGCTGAAAACAGAGCTTTCAATTCTTGTTTGCAACCA
AGGGAGTTGAGTTGGCAGATGGGCACTGTGTCCAGCCTTGGGAAAGGACATCGCAGACTT
TGCATCCTAAGAACTCATAACCACAACGGCAAGGTAAGACACAAGCTCTTGAAAGTTTCC
ATCACAGTGCAGCACAAATGACCTTGGCTATGTGCCCTGTTATTGCTGGTCCCTGCTTAA
AAATCTCCTGTGACTTCCAACCACACAAATTTCCTACCTGGTTGCAAAAATGCCCTTGAT
AATTCACCCCTCCCTCTATCTTGCCCCCTTTACAATGTGGCTTGGCAGCTCCTCCCATCA
AGAGTTAAAATCTATTTCCTCACCCCTTGAATCTAGGCTGGCCATGGGACTTGCTTTGGC
CAATAGATGTGGCAGAAATTATGGCGTGACAGTTCTAAGCATGAGTCTCAAGAGGCTTTG
CATGCAGCAACTTTCTCTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 244>:

GNMCJ54R gnm_244

AGGCCAAACCCCTTAGGTTTTAGGGTTTTTTTCTTTTTTTGAGATGGGAATCTCCCTCTG
TCGCCAGGCTGGAATTCAGTGGCATGATATTGGCTCGCTGCAGTCTCCGCCTCCTGGGTT
CAAGCAATTTCCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGAAGTGCACTACCACA
CCCGGCTAATTTTTCGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGT
CTCAATCTCCTAACCTCATGATCCGCCCACCTTGGCCTACCAAAGTACTGGGATTACAGG
CGTGACCCACCTCACCTGGCCAAGTATTGGTTTCTTAACAGATTTTGCCATTGGACAGAA
CGGACCTGATAGAGCAAGATGTCAAAAGACTCCCTGACAAGTAAAAAAGGGGCCAGGCAT
GGTGGCTCACACCTGTAATCCCAGCACTGTAGGAGGCCGGGGCAGGTAGATCACTTGAGC
CCAGGAGTTTGAGACCAGCCTGGGCAACATGGCAAGACCCCATCTCTAGAAAAACAAAAA
TTAGTGAGCAGCACAGGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGAGGATCCC
TTGAGCCCCAGAGGTGGAGGCTGCAGTGAACCAAGATCACGCCACTGCATGCTGGCTGGG
GTAATAGAGCAAGACCCTATCTAAACAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 245>:

gnm_245

CAGAACAAAGGGGTCTGGGAAGAATGACAGCATGACTGAAGGGCTCCGTCTGGAAAGGAA
GGATAGTGTGCCACCAGGAGAAGGAGAGCCACCCCAGACACCAACAGCTGAGACAATCCC
AGCCCTGGGTTCATGGCCCAAAGTCACAGCCCACTCACCAACCCCAAAwACATACCCCyT
GTGACATGTGGCTGAGCACCAGACATCTTCCTCTCACCTTGCTGAGGATACCTTGCTGCT
GGGCAGGTGACAAGTCGGATACATACTGGGAGACGGCACTTCTCAGGACCTGCGAGATGT
CCTTGCGTTTCATGCTGCAGAAGGCCTGGGTGCTGACCCCAGCCAGCAGTGCGCCCATCT

GGCTGACATTGTAGAAAGACAGCACCTGGAAGAGGAGCGGTGCGCAGTCAGGCTCTGCTC
CCGCCTTTCACCTCTCCAACGTGCACTCAGCCCATCTATGTGCCAAGTATAGGGATGGGT
GACACCTTAGGGGCACAGCAGTGAGCCAGACAGATGCTGCCTCCACAGGCCTTCCTTCCT
TCTATCAAGAAAGAGAGTTGGCCAGGCATGGTGCTCACGCCTGTAATCCCAGCACTTTGA
GAGGCCAGGCGGGTGGATCACCTGAGGTCAAGAGTTCGAGACCACCTGGCCAACATGGTG
CAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTAGCAGGTTCCTGTAAT
CCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCA
GTGAGCTGAGATTGTACCATTGCACTCCAGACTGGGCAACAAGAGCAAAACTCTGTCAGA
AAGAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 246>:

GNMCJ56R gnm_246

GACTACAGGTATGCACCACCATATGCTGCCCAGGCTGGTCTTGAACTCCTGGAGAGAGAT
ACATACACACACACACACACACACACACACACACACACACACACTTTTTTTTTTTTTG
AGACACAGTTTCGCTCGTCACCCAGGCTGGAGTGCAATGGCACAATCTTGGCTCATTGCA
ACCTCTGCCTCCTGGGTTCAAGCTATTATCCTGCCTCGGCCTCCCAAGTAGCTGGGATTA
GTAAGGCACTGCCACCATGCCTGGCTAATTTTGTATTTTTAGTAGAGACAGGGTTTTGTC
ATGTTGGCCAGGCTGGTCTCAAACTTCTGGCCTCAGGTGATCCACTTGCCTCGGCCTCCC
AAAGTGTTGGGATAACAGGCATGAGCCACTGCGCCGGGCCCATACATATGCATTTTAAAA
AATTTATTTATTTATTTCGAGACAGGGTCTCACTCTGTTGCCCAAGCAGGAGTGCAGTGG
TGCTATCTCCCAGGCTCAAGCAATCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGTGT
GCCATCACACCCAGATAATTTTAATTATTTTTATTTTTAAATTTTTGTAGAGATGGAG
TTTCACCGTGTCACCCAGGCTGGATATTTTTGTATTTTTGATAGGCCTGTACAGTTTCCA
AAGTTGCAACCTTTCCCCCTCCCTGAGAGTAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 247>:

GNMCJ56F gnm_247

CTGTTTAACACAGTAAGCAGGAGCTCGATAAATATTAGGAATCATATTACGCTAATTGTT
TTACAAGGTTTGCTTCACTTACACGTATAAATTAATGAAAAAACATAGCATCCTAATGAC
TCTGAAAGTTAAACGCCAAGAGTGCTATGGGGGTTAGGGATTTTAAAAGTGGAGCAAAAT
AAAGACTGCGAAACAAATACGTGTGTCGAAACAAATTTCAAACAAAAAAGATGTAATATT
CAATTTGCCATGAGTGACAACGTTCGGCTGATAACCCACATAGCCCAGGGAAATCCCTTC
CAAATTTGGACGAAGAAGAGGGAAGGAAGAGGGGTCAAGGCGCAGAAGGCAGTACCCAGG
CCTGGGAAATCACGAAGAGACACAGTCGGGAAAGTGGGCCTCCAGAACAGAGAACATACT
CACTTTTCCAGGCCCCACCCATGTCTATTACCCAGTTAGGAGGAATGAGCTCATTTCTGT
GAACGTGAGATGACCCTCGACCCCGTGCTCCTATCACACGCCATTAGCTTTGTCCCACAT
CCTTTCAATCCGCTCCTCTAAGCGCGGTCCTGAGCTTTGGTCCCAGACGCGCAGAAGGAA
GCGGCCTGAATCTTACCCAGTCCTCGACGCGCCCAGCGTCTTGACTGCAGAGGACGAAGC
GGCCGCATCTCCCGACAAACAACGTGTGAAGCAGCGGTGCCGCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 248>:

GNMCJ57R gnm_248

CAAAATTGGTGCTTAACGAATATTTGTTGGGTGGATGAAAGCAAGCACTGACTGTCAACT
ACTATCACTGGGGGTGATTAACTTTGTCTCCTCATGCCTGGCCCCAGTCTGCACTTAGTA
GGTGCATGGTAATAATAATAAAATATCTAACACTTGGACAGGCATGGTAGCTCACATCTA
TAATCCCAGCACTATGGGAGACCAAGGCAGGAGGATCACTTGAGGCTCAGAGTTCAAGAT

CAGCCTGGGCAACACAGTAAGACCCTATCTCTACAAAAAAATAAAAAATTATCCAGATGT
GGTGGTTCATGCCTGTAGTCCCAACTACTTGTGAAGCTGAGGTGGGAGGATCCCTTGAGT
CCAGGAGGTCGAGGCTGTAGTGAACCATGATTGCTGCACTCCAGCCTGGGTGGCAGAGCG
AGGCCCTGCCTCTATAAAATCAAATTTTAGGCCGGGGGCAGTGGCTCACGCCTGTAATCC
CAGTATTTCGGGAGGCCAAGGCAGGTGGATCACCTGAGGCCAGCGTTCAAGACCAGCCTG
GCCAACATTGTGAAACCCGTCTTTACTAATAATACAAAACTTAGCCAGGCGTGGTGGCAC
ATGCCTATAATCCCAGCTAGTCAGGAGGCTGAGGCAGGAGAGTTGCTGTAATCTGGGAGG
TGGAGGTTGCAGTGGGCCGAGATCATGCCGCTATACTCCAGCATGGGTGACACTCCAGCA
AGACTCCATCTCAGGGAATAAAAAAAATCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 249>:

GNMCJ57F gnm_249

CCAGAAATCTGCCCCCATGATCCAATCACCTCTCACTGGGCCCCACCTCCAACACTGGGG
ATTACATTTCAATAAGATTTGGGTGGGGTACACATCCAAACTATGTCAAATATAAAGTTT
AGTAAAAACTTAGAAATAGCACCAAACCAAAAAAGGGGTAGGTACACATACATTTTTTTT
GTTTTTTTCTGAGACAGGGTTGTACTCCCATCACCCAGGCTGGAGTGCAGTGGCATGCTC
TCGACTCACTACAACCTCAGCCTCCTGGGCTCTGGTGATCCTTCTGTCTCAGCCTCCTAA
GTAGCTGGGATGACAGGCTCATGCCACCACGACTGACTAATTTTTGTATTTTTAGTAGAG
ATGGGGTTTCACCATGTTGGCCAGGCCAGTCTTGAGCTCCTGACCTCAAGTGATTTGCCT
GCCTCGACCTCCCAAAATGCTGGGATTACAGGTATGAGCCACCACACCTCGCCTAACCTA
CATTTTTTGTCGATATTACCAGATTGCTCTGCTAATAGTGCACAGTTTGACAGTCCCACG
GAAAAATGAATGTGCCCAGCATTAAGTATTAGCACTTCATTTTATTTTTGACAATCTGAT
GGGTGAAAAGTGATTTACTTATGTTTTTTAGACTTTATTGGATTTTCATTGAAGTTGAGT
ATCATTTTATAGGATTCTATATAGAGACCACATTAGTGGGACTAGGGGATAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 250>:

GNMCJ59R gnm_250

ATCAGAGTCACTTCATCTTCTGTGAAATTTGCAAAGATGCTAGGAGGTTCCCCTCCTGCT
GGGACACCCCAGCCCAGACACAAACCATTAATTCACAATTACATGGAGTTTCACTGTCTG
CAAGGCTGCTCCATTTAAGCTCTGGGTCATGAACACATAACTCTAGGCATACTGACACTA
GCTGGGAGATTTTCCACCAAAAAAAAAAAAAAAAAAATGCCATTTCATGACTATTAATCCA
AAATAGGTAAATGTGTCTGGCTTATAGAATACCAGCCTGATTACAAATGCTTGGTGTTGG
AATGGCCCAGCTCACAGTGGTTGTAGAAGTCCAGTAGGCCCAGGCTTTGTGGCTCACTCC
TGTAACCCCAGCACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 251>:

GNMCJ59F gnm_251

CCGCCAAGCCGGGCTCCGCAGTTGAGGCGCGCGCGGGGGCCTGGGCGGAGGACTCACGGG
GCAAAGCGCTGGGGGAGCGGGTGGGCGCCCACCGCTGGGCCTCCCTAGGGAAGGGGTGCA
GGTGATGGATGGCGTGGGGGACAGACCGAGAGAAAGAGGGTGGGCAAAGTGTGGGTGCAG
CGGCTTTAAGGGCTCCTGGGATTGGAGGGCACTTGGAGGGGGGGGACGATGAAACTTCGA
GAAAAGGGATCCAAAACTACTTAGTAATATAATAACAGCGATGACAACTGTTGCAATAAC
TATCACAATGATTATTTGTTATAATAATATAGCAGCAGTAAAAACAATAGCATTAGTAAT
AATAGCTACGATTCATTGCATTCTTATATGTGCCAGTGCTGGGCTTAGTTCTTTATGTAT
TTTATGTATAAAGTAATGCCTACCTCATAACAGTTGTGTGGAAGAAATGGAAAAAATGCAG
GTAAAGGCCGGGGCTCACACCTGTAATCCCAGCACTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 252>:

gnm_252

CGGTACCCGACCATCATCATCGTGGGACTGACTTTGGTGGAAGTCCTTGGTTACATGTCA
TTATTGCATTTCCGACAAGTTATAAAGTTGTCATTACCCTCTGGATAGTTTACCTTTGGG
TGAGTATACTAACTTTCTGTAGAGGTATACTTGTAATCACAAATAAGAATAAATTATATA
AAACAATTCACATTTCTGGACTTCATTATGAATATGTGGTTTTACCCAAAAAATCAGGGA
AATGATTTATTAGTATAAGAATTATGAAAACATCTGCCATTTGCATTATGAAAATTAAAT
AGGTCGGTGTTTGTTTAATAGAATGTCAACAGAGCTTTTGGTCAAAAATAAGTTTTTTTA
ACCTTTGTGCTATTTATCACAAATGGAGTATGAGGTTTCGTCACTTAAATAGGAAATTCT
TTCTAAACTCTTCTGCTTTATAGTTCTATCGTATGGGTGGAAGGAAAGCTTCCAATCTCC
TCTCTGAAGATTCACTGCAGAAATGAGCTGACAACAGACAGCTTAACAGGAAAAGAAAAA
CATAGAACAGGCATAAACATGGGAACCAGCTGAAAAATGAGACTGCTAGAAGGGCCGGAT
GGCTGATGCTTAAAGAGCACCCTCTTCTGAGGGGAGAGGGAGATAGATGGAGATGTAGGC
CATTTAGAGGGGCAGCAAATGATTTTTAGGGGAAATGAAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 253>:

GNMCJ61F gnm_253

CTGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCTGGCCTGAAA
TAATATCTTTCAAATTCTTTGTAGAATTTGTTTTTTCCTGATTTCTGCACATAGGATAAA
AAAAAAATCATGTACTAGGATTTCGAGAGAAGCAATGGGTAATCTAAAAAGATGAAAAGA
GCAACCACGTCAATCCCACAGCTACTGCTAGATTTCATAGGAAAGGTAGCTGGCCCAGTT
TGGAGCTAGGGGAAATGTCAAACACATGAAGAAATGAGAAGCCAAGAAATGCCATCACGC
ATGAATGCTTCATGGCACCCATGATGTCCCTGCTAAGGAGGTAATGGTATAGATGACTAG
ATGACAAGGACAAAGATGAGAGGTGCGAAGTTGTCCAAGTCCAACAGCTCAACTGAACTT
TCCTAAGTGGAATTGTTAAAAAGTGGTAAATTTAAAAACTTCACCTGGCTCACGTGGTGG
CTCACGCTTGTAATCCCAGCACTTTGGGAGGCTGAGGTTGGTGGATCATTTGAGGTCGGG
TTTTGAGACTAAGCCTGGCCAACATGGTAAAACCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 254>:

GNMCJ63R gnm_254

CGGCGCAAATCACCTGGATGGGTGTGAAAGATTCCGACCATACCCGGAAAGACGGAACGC
GCATTGAAACGGAAGGCGACGGAAATGTGCAAACGCGACTTGGGGTGAAAACCTACCTGA
ACAGCCATCACCAGCGTGACGATGGTAAACAGCGTGAGTTCCAGCCTTACATTGAAGCGA
ACTGGATCAACAATAGCAAAGTCTACGCCGTGAAGATGAATGGTCAAACCGTAGCCGTGA
AGGTGCGCGTAATCTCGGTGAAGTACGTACCGGGGTTGAGGCGAAAGTAAATAACAACCT
TAGCCTGTGGGGGAATGTCGGTGTGCAACTAGGTGATAAAGGCTATAGCGATACTCAGGG
CATGCTGGGAGTGAAATATAGCTGGTAAACCGTATAAGCCGCATGTCGAGATGGCATGCG
GCTTAATATTGCCGACTTCAAACGGCGCATCAACGCCTTATTTAAATCCTCCTTTTTATC
CGCGATCGCGGATATCGCAGCGTTTATCCCGTAGAGCGGATAAGATGTGTTTCCAGATTG
ACTTATCCTCACTAAAGGATAAAACGCATAATATCCCCTTAAGCGGATAAACTTGCTGTG
GACGTATGACATGATGAGCTTTCAGAAGATCTATAGCCCAACGCAATTGGCGAATGCAAT
GAAACTGGTTCGCCAGCAAAATGGCTGGACGCAGAGCGAGCTGGCGAAAAAAATTGGTAT
TAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 255>:

GNMCJ63F gnm_255

CCGGCTTAACCGTCCATGCAACCTCAACACATTGCTTTCAACTGCCGTCACCACGTTCTC
CGGAAAATCTGTCGGTAATGAAGTCTTCACGTTATCCAGTGCTGCTGGAATCATTCTGGC
AAAGTCACTCAGGATTTCATGCATCTGCACTTCCGGGAATCTCAGCACCTTTGCTGTCGC
CAAAAAATGTCGCGGATAAATTTTATCGATTGCCGTTTTTTTGCCTTTGGATGCGTTAAG
CCCCATTGCCAGTTTGAGATCGCTGATGTGTATTCCCGTACCGCCAAGGACCGGAAATGC
TGAAATGATGTCGTAAAATGGCGTGAGTCGATAACTGCCGCCAGCCTGAATAAATACGGA
GAAGTTTTTTGCATGACCGTCCGTTGCGCCAATCAACCACTGGAAGACCTGGAATTTCAT
AAAATCATAGCGATCTTTCAGCGCCTCGCTGGACCCCATCAAAAAAGCCATGATCCGCGC
GATGCCTGGGCCTCCATCTGATTCATATTTCACCGATGAAGGTAAACCGAATGTCTGACA
CATATCCTCCTGTGGCAAGCGAAGTAAAACCGTTCGCTCAGCATTCCAACGCCTGTCAAA
ACGTTCGACCGCTAACGCGCGCACATTTCCCGCTTTAATGATTTCTGCGTCCGGAACATT
CAACCCAAGTTCTTTCGCCAGCAGCAGACAGTAATACTCATTATCACCGCTTTGGCTGAG
ATCGAGCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 256>:

GNMCJ68R gnm_256

GTACCCCATACAGATCACCTGGGGATCTTAAATGCAGATTCTGATTCAGGAGCTCTTGGT
TGAGGCCCAGGACTCCCATCTTCCTCTTCTTCCTCCTTCTTCCCTTGGCCTCCCAAAGTG
TTTGGATTACAGGTGTGAGCCATTGCGCCCAGCTGACGCTGCACTTCCAACAAGCTTCCA
GGTGATTCTGGAACCGCTGCTCTGGTGAGCACACCTGGAGCGGCAGGAGATAAAGCAGTG
GTTCTCAAACCTGCCTCTAGATTAGTAACATCCCTGCCAGGTGCCACCCTCAGAGAATCT
GATGTTATTGTTCTGGGGTGTGGCCTGAGGTATGGCCTGATTTTAATGCTTCTCAGGTGA
TTTCAATGCAGCCAGGATTGAGAACACTGGATTGCAGGGTGGTTATGAGTTCCCAAGACC
AGATGAGCAAACACGCTCTCTCTCATTTTCCTTCCTCTCCATCTCTCTCTTCTTCCTTCC
AGTCAAGTCTCAATTCTACCCCCTTCCATTCCACTTTTTGTGGCCCTTTTCAATTTGCTT
AAAATCGAAACGATGACATGAAAATAATATTAAATGAAATTTTGATAAAGCCATCAATAA
TTTCACAGCAGTATCCCACACATCACCATAAAGTCCCCAAACACATTTGACATTTGAGAG
TGTGGTCATCTATTTAGGTCAGCGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 257>:

GNMCJ68F gnm_257

CCTTTACTCTTCTTAAAATTATCTCTTGCACCTCTTTGCACATTTCTATGATCATTTTAA
TAATTATTTTATTGCAATATGCCTGCCTAATGATAGTAAAGTGTGCGTTACAGCTGCTTT
CGGTAAGGAATGTGATAAAGTCACCTACTATACAATGAGCTCTGTAACAAAAAACAAGAA
TGGTTCATATTTTAACACCCGAATTTACGTAATAACGTAGTCATTTCAGGCAGGTGCACA
AAACGGGTTTCTGGCAATATTGAAATAGCCACTGGGGGGCAGCAGAGTGAAGTAGAAGAA
ACAACTGTCAAAGCGCCTGGGTTCTCTAAGTTCGGCAACTGCCTTACCTAGAAATCAGTT
TCCACATCTGTAAAACGAAGGGGTGGACTACAGTGGCAGCTCCCAAAGTGTGGAGCACAC
CCAGCGGCATCTGCAACACCTGGGAACTTGTTAGAAACGCAGATTGCCAGGCTGCTCCCG
GACCTCCTGAATCAGAGACTGGGTGGGGCTCCGAAATCCAGGGATCCCCAGACTCCGGGT
CACAGATGGGGACCACCGGGACCCTGGCCTGTTAGGAACCAGCCACAGCAGGAGGTGAGC
AGCAGGCCAGTGAGCATTACCGCCTGAGCTCTGCCTCCTGCCAGATCAGAAGCGGCATTA
GATTCTCCTAAGAGCAAACCCTATTGTGCACTGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 258>:

GNMCJ71R gnm_258

AAAGTTGGAGGGTACTTTTGTGATGGGTTTGGTTTAAATTGGTTTAAAATATAAGACACA
TAGTCCATAGAGAATTCACCTATGGACTATGCTGCTAAGAGAATCTCAAAGAGATGCACT
GTTATGCTCCAGAGTTTTGTGAGAGGCCACTAAGGTCAGGAGACACATGCCATATATATC
AAGATGCTGTCAACAGAGAAAACCAGTGAGGTTTCAAACAGAAGCCCCGCTCCATTCAAC
CAGGCAGCCACTCCTCATTGCAGGTGCTGACCTGGGCTTTGGCTGCTTCTCACATGGGCA
ACTCTATACACTCTATTCCTGGGAGAAGGGCAGCAAAGACCCACTTATTAAATGATGTTT
AACAATCCTCGGCCGGGCGCGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGA
AGTGGGCGGATCATGAAGTCAGGAGATCGAGACCATCCTGGCTAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 259>:

GNMCJ73R gnm_259

ATTTTCATGGACAGCAACTCATCTTCCTGGTTTTTATTTTTTATTTTATTTTGACACAGG
GTCTCACCGTTACCCAGGCTGGAGAATAGGTGTGATCACGGCTCACTGCAATCTTGACCT
CCCAGGCTCAGGTGATCCTCCCACCTCAGCCTGCTGGGTAGCTGGGACTACAGGCATGTG
CCACCATGCCTAGCTAATATTTTGTAGTTTTTTTTTTTTAGAGGTGAGGTCTTACCATG
CTGCCCAGGCTGGTCTTGAATTCCTGGGCTCAAGTGATCCTTCTGCCTTGGCCTCCCAAA
GTGCTGGGATTAAAGACATGCGCCACCGCACAGCCCATCTTCCCATTTTTATAGGAAGGC
TGCTGCATAATTTTGGAATCTTTATGCTGGGCTGCAAACTCAAAGGCATAGGGGGTAAGA
TAGGCAACAGAAATTGTGTATCGAGTGCTTACTGTATGCGTGGCACTGTTCTAAGTGCTT
TACATATAACACATTTAGTTTTCACAACCATCCTATGAGGCGATTTTATTTCCATTTTAT
AGACAAGAAAACTGAAATACAGAGAGGTTAAATAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 260>:

GNMCJ73F gnm_260

CCCTCTACTAAAATACAATTATTAGCCAGGCATGGTGGCTTGTGCCTGTAGTCCCAGCTA
CTCAGGTGGCTGAGACACAAGAATCACTTGAACCCGGGAGGCAGAGTTTGCAGTGAACAA
CAGATCGCGCTGCTGCCCTCCAGCCTGTACGACAGAGCAAGACTCTGTCTTAAAAGAAAA
AGAAAAAAAAAAGAAAGAAAAGCTAAAACAGGCCACAAAGGGACCTTTTCCTTTTATTTA
TTTATTTGAGACAGAGTCTCGCTCTATCACCAGGCTGGAGTGTAGTGACGCAATCTCGGC
TCATGGCAGCCTCCGCCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGC
TGGAACTACAGGTGCATGCCACCTGTAGAGATGGGGTTTCACCATGTGGGCCAGGCTGGT
CTCGATCTCTTGACCTCGTGATCCGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCCAC
TGCACCCAGCCTATTTTTATTTATTTTTGAGACAAGGTATCAGCTCTGACGCCTAGGCTA
GAGTGCACTGGCGCAATCTTGGCTTACTGCAACCTCCACCTCCCGGGTTCAAGCCATTCT
CCTGCCTCAGCCTCCTGAGTAGCTGGAACTACAGGCACATGACACCACGCCTGGCTAAAG
TTTGCATTTTGAGTAGAGACAGGGTTTCACCATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 261>:

gnm_261

TGAAATAATGATGTGTTTGTATTTCATAATCTATGTTGTGTCCTAGTTTtTCAGTGGAAT

ATAAATAATGATGGTAACTTAGATTCAATGTGAACCTTGAGTAGGGGTACAAGTTCAAAA
TCTGTATAAAAAAATCTATATTAAAATGAGAGAAGAGGCTGGGCGTGGTGCTnCACGCCT
GTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATTGCCGGAGGTCAGGAGTTTGAGA
CCAGCCTGACCGACATGGTGAAACCACATCTCTACTAAAAATACAAAGATTAACCGAGCG
TGGTGGCGGGCACCTGTAATCCCAGCTACTCAGGAGGTTGAGGCAGGAGAATCGCTTCAA
CCGGGGAGGCAGAGATTGCAGTGAGCTGAGATTGCACCACTGCACTCCGGCCTGGGTGAC
AGAGGCrrCTCCGTCTCGAAAAAAAAAAAAAAGAGAGAGAGACAGAAGAGAATTTTATTAG
GAAATCTAGGCAATAAAACACAGAAATTTAACTCTGAGCGTCCTGGCTACCAAAGCAGGT
AGGTCAGGATTTATTTATTTGATGGATGTTGCTTAAAGCCTCCTTGTGTCCTAGAGCAGT
CAAATTCATAGAGACAGAAATTAGAATGGTGGTACAGTTTCGATTTTGCAAGGTTCAAAA
TATTCTGGATATGGCTGGTAGTGACGGTTGCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 262>:

GNMCJ77R gnm_262

CCATTACACTCCAGCCTGAGGTGACACAGCGAGACCCTGTCTCAAGACGAAAAAAGTTCT
ACTTGCAACACTCCACACAACTAGTGCAATTCTTGGTATGTCAAAATACCAAGAATGAGA
ACTGCTGATACAAAATACAGTGGAACACAAAGAAAATGTCCCTTTGTATCTGGGAAAGGA
GGCAGGGGTCAGGAAAAGCTTTAAAGAGAAAGTGATGCTTCAGCTGTCTTTAAACAGTAA
CACAGTTGAGTCTTTTCTGGAAGTTCTGCTTCTTACAGAAGGAAAAGTATGTATTCAGAA
AACTGAAAAATGTTCAGTATGGCTGGCATGTATAGTGACCAAGCCAACAGATAATAAATC
TGGGGAACAAAGAAGCACCAAATAGACCATGGAGGGCCTTGTAAACCAGATCTGTAACTA
GAGAGATCTGGAAGTGTGGGAAATAGACTCAATGAAGGAACAACCATGTGCTTAGAGAGA
ACCAGGGAAAGCTCCATGAAAGATGGAGCCCAGCCAAGAGTGGACATGATAAGTTTGGAG
CATCTATGATGATTCTGGGTAAATGCATCTAACAGACAGTTAAGAACCAAGTCTAGGCCG
GGTGCAGTGGCTCACGTCTATAATCCCAGCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 263>:

GNMCJ77F gnm_263

CCGAACAGTCTCTGACTCAAAGTAAGGGCAGTAATTGTCATCTGTTGTTTTTGTTCCAGC
TGACTGTGCTGTATCATTTCTCACTCACATTTAAGTCCACTGTTCTTATCACTGTAGTAA
TTACCCTGACAGATTACCCATGTTTTTTTTTTACATGCTGATTTCAGTGGACTTTTTTTG
AGACAAAGTCTCCTTCTTGTCACCCAGGCTGGAGTGCAGTGGTGTGATATGGGCTCCCTG
CAACCTTTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGAGAT
TACAGGCACCCGCCACCATGCCTGGTTAATTTTTTTATTTTTAGTAGAAACGGGGTTTCA
CCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGACCTGCCTGCCTCGGCCTC
CCAAAGTGCTGGGATTACAAGTGTGAGCCACTGAGCCCAGCCTCAGTGGACTTACTTTTT
TAAGCCTTGTATTCCTTGTATCAGCCGACACTGTTGGCCACCCACTTCTTAAAACTTCAG
TGTTTCTGATCCTCCTGTCTTCTGATCCTTTAATCTCTCTCTTTTTnTTTTTTTTTTTTT
TTTTGCTCTGTCGCCCAGGCTGGAGTGCAATGACGCAATCTTGGCTCACTGCAAGCTCCA
CCTCCCGAGTTCAAGTGATTCTCCTACCTCAGCCTCCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 264>:

GNMCJ86F gnm_264

CCTTGCCTTTTAGGAAGAAATAATAGATGGAAGCTATCTGAATGGTAATGTGCCCCCTTG
ATCTCCACTTGCTTCTTCTAAGAATTTCAAACAGAATGTAGCTGTGATCTCTCTGGAATG
ATTCCTTTTAAAGATGTCTTTTCATTTTACTCCCATTGTAGCACTGCTGGATCTCATACA

GTTTCAAAGGTAAAATGCCCTAGAGGAGAGGGGAAGGGATGGTATAGATTTTTAATAAAA
ATTCTTAATGGAAGTCTCTTAATTGTAAAAAGTAATATGTGCTCATTACAAAAAATGTCA
ATCAATGCACAATGTGTTAAAAGTCAACAAACACCCTTGCTCCACGGGCATCATTCCTCC
TCACTCTAGCATAAGGGCCAATTTTTTTTCTTTTTTTGAATGGAGTTTCGCTCTTGTTGC
CCAGGATGGAGTGCAGTGGTGCTATCTTGGCTCACTACTGCAACCTCTGCCTCCGGGGTT
CAAGCAATTTTCCTGCCTCAGCCTCCTGAGTAGCTGGGTAACAGGTACCTGTCACCATG
CCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGTTTTCACCATGTTGGCCAGGCTGGTC
TCAAACTCCTGACCTCAGGTGATCTGCCGGCCTCAGCCTCCCAAAGTGCTGGGATTACAG
GTGTGAGCCACCGCAACCGGCCTAAGAGCTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 265>:

GNMCJ88R gnm_265

GTACCCTGTCTAAATTTGCCGTCCGTTGAGGTAGAAGGCAAATTTGGAGTTTTCTTGTTT
AGAAAAAAAACTACAGATGACTACTGTGCACCTGAAAACAGCACTCAGCTTCACTAACGA
GACATGCAAGCTAGAATCAAATTGCTGTTTTGTTTTGTTGCCTGTCGTGATTGTTAGCTG
AAACCAAATCACAAGGTCTTTTTCTCCCTCTGTATTAGCTCAGCATACACTGAGCTTACA
AACGTATGAACTTCACGTTGTCGTGGAATCTTACAGCCTGCTACTTCCTAAGTATCCTTT
AGAGAAGCTGCCTTGGTGACCAATGAATGTGGTTAGCCTAGTGATACTCTTCTGGGCCAT
ATACTGTGTGACTATCTGCATGGACCTTTATTGAAAGCATTTCTGCAAATAATTTTTTTA
AGTGTTTTTTAAATGTGTGATAATTTGTGCTTTTAAAGATATCTTACACTTTTCACTTAT
TTGTACCTTTAAAAATCTTTTTTTTTTTAAACCAAAGGTTTGCAGTATCCTCAGAGTCT
GAAATTTGAGCGGATAGTGATGAGCCAGCCAAATCCCCTGAAGATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 266>:

GNMCJ88F gnm_266

CCAGTTCGAGACCAGTCTGGCTAACGTGGTGAAACCCATCCCTACTAAAAATACAAAATT
AGCCAGGTGTGGTGGCGCATGCTGCTAATCTCAGCTCCTTGGGAGGCTGAGGCAGGAGAA
TCACTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCAAGATCGCACCACTACACCCCAGC
CTAGGAAAAAAGAGTGAAATTTCATCTCAAAAAATAAAAATAAAATAAATATGACAGTAAT
CTCTGTTTATTAAACACATAATGTGCCAGGTACTATTGTGGTCACCCTGCAAAGACATGG
ACCCCACCACCCAAAATTTGTTTTAGATGTCAAGACTGATGATACACCACATGCACCAAG
AGGGTAGGAAAAGGTTTATTGCTCATATAATGAAGCTTTCTGAGAGAGCAGGGCAGATTC
CCAAGCAGGTCCAAAAATGGTTTCAGAAAACCAGGCAAGGAAACTCCCTTAGCATTTATG
GTGGTTAGGGATGGGGATGGGGATGGGGATGCGATGGGGATGGGGATGAAATGTGGGTCT
GGTGGGAGGGCTAGGGCTTGTTGGGTATGAATTTCCAGCTGGTGCCAGAGGAGAGAGCAG
CAGGCTTTCTTAGCTTGCCCAGATGTGGGGCAGAGGGGGAGAAGGAGGGTGGAAGATGTT
AGCAGTCCCATATCAGAAGTGGAGGCAGACTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 267>:

GNMCJ90F gnm_267

CCGAATGAAGTAATCTCTTCATTGTATTTTTTTTTTTTTTTACTTATGCTGAGATTTAAA
TGACAAAGATTCATATAATCCAAGAGAGAAGTATTATTTAGAGGGATTCTTTTACCATGT
GATATATAATAAATGCATCCAATGTTATACATCAATTTAAAAAACAAGTAAATAACTTTA
AAGAAAAGATAACTACTGGCCAGGTGCAGTGGCTCACACCTGTATTCCCAGCACTTTGGG
AGGCCAAGGCAGGTGGATCATGAGGTCAGGAGTTGGAGACCAGCCTGGCCAAGATGGTGA
AACCTGTTTCTACTAAAAATACAAAAATTAGCCGAGCGTGGTGGCAGGCGCCTGTAATCC

CAGTTACTCAGTAGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTG
AGTTGAGATCATGCCACTGCAATCTAGCCTGGGTGACAGAGCAAAACTTTGTCTCAAAAC
AAAAAGAAAAGAAAAGATAAGATAATTACTTTATACTTAGCTTGTCTTACCCATGAGTGA
CGGGCTGCATGTGGCCCAGGACAGTTTTGAATGCAGTTCAACACAAATTTGTAAACTTTC
TTAAAACATTAGGAGATTTTGGCCAGGTACAGTGGCTCATGCGTGTAATCCCAGCACTTT
GGGAGGCTGAGGCGGGCAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 268>:

GNMCJ91F gnm_268

CCnTGTCGCCCAGACTGGAGTGGAGTAGCATGACCATAACTCACTGCATTGCGGAACTCC
CATGCTCATGTGATCCTCCTGTCTCAGCCTCCTGAGTAGCTGGGACCACAGACATGCATC
ACCATGCCTGGCTAATTTTTTAACTTTTTGTAGAGACAGGATCTTGCTTGCTATGTTGCC
CAGGCTGGTCTCGAACTCCTGGCGTCAAGCGATCCTCCTGCCTCAGCCTGTCCAAATTCT
TAACACTATACTATTCTGCCTCCTATACTAATCCCACAGAAATAAATTTCTTTTATCAAA
TTAACCTTAAAACAGACCATTCATTCTCACAAGACAGATAGTCAGAAATACAGGATCGAT
CTGTGTTTCATGGTAATACCTGGCTCCTTCCAAGTTCCTTATCCTTCAGGACTGTAGAGT
TGAATCCAGGTTGCCTCCTTAAATCAAAGAGAGACACTTCCTTAAAGAAAGCCCCTTGTA
TCTCCACGATGCCTGGGGCAGTGTCTTCCGCTTGGACCATCTGCCAGAAGCGAGAAGCAA
CAAAACAACATTGTAAAAAATGCATTGAGCTTTGAGGAAGGGCCAGGCACTACATCACAG
GCAATAAAATCCATCAGAACCGCTCAGCAACCCTAGGAAGTGGAGAGTAGCATCATCCCC
ATTTCACAGGTGAGGGAACAGAGACTTAAAGTGTGATGAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 269>:

gnm_269

GTACCCCATGGGTACAGAGGAAAAGCAAAGAAAGGAAGGATAAGGATGGGTGCGTAGGAA
GACAACCTTCCAATTACAAGGCAGAGTAGCTCTGACCTTCTAGGAACAGGTGAGCCCCTa
aGAACGTCCCAAGGGATGGAAAGCAGGTTCTCCTAACCATCTCAAAGGCACCCCCTCTTAG
GGTGATTGGCCAAATAGGACATGTTCACCAACACGTCTCAAGAGAAAGACAGTCTGGTGG
ACTTCAGTATTCCCTGATGCATCCAGTCAAGTCCTATGGGTGAATAATTTTGTTCTTGGG
GAAGGGTTTCAACAGCATCCTTGTCCAAAGATATCTTCATGGGCCACTGAAAGAAACTGG
CCTCCTAGATAGGTCTATTACCTTTAAAAGGGTTTTCTTCAGCTTTAACAGATACAATA
GATTTGGAATGCAAATGAAAAAAATGACAAACCTACAAAAAGAATCAAAACAGTATACAA
CACTGTCCTCTATCCACAAAACAAATGGATCTTTAAGTGCAACCACACAAAAGAGATGAC
AAAAGCCTTACATACAGGGTTTTATATATAAmAmAGGAGACACTTTATTCTAAAATCACC
ACTTAGAAATATAAACATCTTGCACAGAGTAGGAATTTTATTCACTTTAAAAACATGCCA
AAAACATATGGGAGATATTTCTGACTTGAGACAATGCTATACTCTTTTTTAAGCATGATA
TTAAAAGTACTCGGCAAATTAGGCTACTTACATAAGAGAAATAAATTTAGCTCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 270>:

GNMCJ95F gnm_270

CCTGCACTCCAGCCTGGGCAACAAGGGAGAAACTGTCTCAAAATAAATAAATAAATAAAT
AAAATAATGTAGATCTTGAAAGGGGGTTGGTTTATGCTGGTGTATGTACTTTCCAAAGTT
AGTAAACTTACACTTAAGGTTATATATTTTGGCCAGGCGCGGTGGCTCACGCCTGTAATC
CCAGCACTGGGAGGCTGAGGCAGGCAGATCACGAGGTCAAGAGATGGAGACTATCCTGGC
GAACATGGTGAAACCCCATCTCTACTAAAAACACAAAAATTAGCCAGGCGTGGTGGTCTA
CTAAAAATACAAAAATTAGCCAGGCGTTGTAATCTGAGCTACTCAGGAGGCTGAGGCAGG

ACAATTGCTTGAACCCCAGAAGCGGAGGTTGCAGTGAGCCGAGATCTTGCCACTGCACTC
CAGCCTGGGCGACAGAGTGAGACTCTGTCTAAAAAAAAAAAAAAAAAAAAAAAAAGTCATC
AAACCAGATGACACAAATCCAATGGCATTTCACTTTGGTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 271>:

GNMCJ96R gnm_271

CTGCATGACTCCGCCAAAATCTATCGCTTCCCGGTTTCGCAGAGCATTGATGAGCTGATG
GAAGCTTGTCGTGACGTGATCCGCAAAAACAATCTCACCAGCGCCTATATCCGTCCGCTG
ATCTTCGTCGGTGATGTTGGCATGGGAGTAAACCCGCCAGCGGGATACTCAACCGACGTG
ATTATCGCTGCTTTCCCGTGGGGAGCGTATCTGGGCGCAGAAGCGCTGGAGCAGGGGATC
GATGCGATGGTTTCCTCCTGGAACCGCGCAGACCTAAACACCATCCCGACGGCGGCAAAA
GCCGGTGGTAACTACCTCTCTTCCCTGCTGGTGGGTAGCGAACGCGCCGCCACGGTTATC
AGGAAGGTATCGCGCTGGATGTGAACGGTTATATCTCTGAAGGCGCAGGCGAAAACCTGT
TTGAAGTGAAAGATGGTGTGCTGTTCACCCCACCGTTCACCTCCTCCGCGCTGCCGGGTA
TTACCCGTGATGCCATCATCAAACTGGCGAAAGAGCTGGGAATTGAAGTACGTGAGCAGG
TGCTGTCGCGCGAATCCCTGTACCTGGCGGATGAAGTGTTTATGTCCGGTAAGGCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 272>:

GNMCJ96F gnm_272

GTTGCCAGGCTGGCATAAGCACGCAGGCAAAGGAGACCTGACGTTCACGATTTTTCGGCG
TCCAGGCTTTGTCACCTCGAGCGTCCTGCGCTTCACGACGCGCCGCCAGTTCGGCATCGC
TTACCTGTAACTGAATGCCACGGTTCGGGATGTCGATAGCGATCAGGTCACCATCTTCAA
TCAGGCCAATGCTGCCGCCGCTTGCCGCTTCCGGTGAGACGTGGCCGATGGAAAGACCAG
AGGTGCCACCAGAGAAACGACCGTCGGTGATCAGCGCACAGGCTTTGCCGAGACCCATTG
ATTTCAGGAAGCTGGTTGGGTAGAGCATTTCCTGCATCCCCGGACCGCCTTTCGGGCCTT
CATAGCGAATTACTACCACATCTCCGGCGACAACTTTACCGCCGAGAATCGCTTCTACCG
CATCGTCCTGGCTTTCGTACACTTTCGCCGGGCCGGTGAATTTGAGGATGCTGTCATCGA
CGCCTGCCGTTTTCACGATGCAGCCGTTTTCCGCAAAGTTACCGTAGAGCACCGCCAAGC
CGCCGTCTTTGCTGTAGGCGTGTTCCAGCGAGCGGATACAGCCATTGGCGCGATCGTCGT
CCAGCGTATCCCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 273>:

gnm_273

GGGGGATGAAAACCAGCTCCCGTCCGTCGGAATAGGGGCGGTGCTGTCCGTTTTGTCACA
AAAAACCGTTTTGGACGGAGAAACGCACCAAAGGCTGGCCGGCTTCCTTCCGGAACACAG
TTTCAGCGTCACGCAAATCCACCCGTGTTGGCGCAAAACACCGCCCATCTGTCGTTCAGC
CACCGCTTCGGCGACAACAGCGGCATCGGCTGCCTTGCCCGTGCCGCCGTATCGGGCGAT
GAAGGGGCGTGGGCATTGTTTGACCGGTTTCCGGACGAACTGGAACATTCGGAATGCAGT
CCGAACGCTCGAGTCGAAAGGTTGTACCGGGCACACAAAGCCTATTGGCAGGCGGTAAAA
GACGGCAATATCGAAGCCGCATACGCGGGCATTTCGGATATCGTGGTTCTGGCAGCTTGG
CGGCAGGATGCGGAAGACTTCAACGAAGCCTATTGCCGCCATGTACGCCGCAAAATGAAC
ATACCGGAACATTTGGCATATTTTGCCGGAGAGCCGATTATGATCAGGCAGAACGACTAC
GCGCTTGAACTGTTCAACGGCGACATCGGACTGATTATGGAAGATGTCGGACGGCAGGGC
AGCCTTGCCGCCTATTTTGCCGATGCGGACGGATTTAAAAAGGTAGCGGTAAGCTGCCTG
CCCGAATTTGAACCCGCATTCGCCATGACCGTCCACAAAAGCCAAGGTTCGGAATACCGG
GAAGTATGGCTGCTGCCGCCTTCCGCCGCACCTTCGGACGAAGGGGACGATGCATTGTCC

GGATTGAGTAAGGAGCTGTTATATACCGCCATTACCCGCGCGAGAGAGAAGTTCGTATTC
TTCGGCGGGGAAGAAGCCTTCCGGCAAGCTGCCGCCACCGTCAAAACGCGTCAGACGGCA
TTGGGCAGTATGCTCGAGCGGGTATTTTCACAAGAATAATCCGCCCGAATGCCGCGCCGC
CGCCCCTTATGCCTTTTTCAAACGGTATAGGAAAGTGGTTTCCCGGGTTCGCGCAAAAGC
AAGCGGATCGCTCGGATTCGCGGCTTTTTGTGCTTCGGCTTGGTTTTCATCATATCGGC
AACACGCAAACCCGCCTGAGCAAATGCCTTATCCAGAAAATCGGATGGACGCAGGTGCAG
ATGTTCGGCAAGATCGGAAATGATCAGGCGGATTTCTCCGTCGGGATTCAGATGTTTCGG
CGCATCCCGCAAAAACGCAGCCAGCATCGCAGATTCGGGGTCGTATAACGCGGATTCGAC
GGCGGAAGTCGGCTTGGCGGGAAGCCAGGGCGGATTGCAGACAATCAGATCGGCAAACCC
TTCGGGAAACAGATCGGTTTCCCGTATCTCAACCTGTTTTTCAAAGCCCAAACGGGCAAT
ATTGGCACGGGCGCAGGCGACGGCTTTCGGATTGGTATCCGTGCCGATGACGGAAGGAAT
GCCCTGTTTCGCCAAAATGGCGGCAAGCACGCCGGAGCCTGTCCCGATATCGAATGCCGT
CTGAAAACCCGTTGACGGCGCATGGGCGAGCAGGTCGAGGTATTCGCCGCGCAACGGCGA
GAATACGCCGAAAGGAACGTGTATGCTGCCGCCCAGCTGCGGAACGGCAACCCCTTTCTT
ATGCCACTCGTGCGCACCCATAAACCCCAGCAGCAGATTGAGCGGCAGGAAAAACGGTTT
GCCGTCCGCCTCTCCGTACACGTCGAGCAAAGCGGAGCGTATATCGGGCGCGCGTTTGTT
GTCCAACACAAAACCGGGGCGGATTTCAACGGCAAGCATATTCAGAATACGGCTCTGCTG
CGCCTGCTTCATACGGTGGGCATGGAAAAGGGCGGCGATATCCGCATCGGAACGGACGGC
GGCAGGTTTGCGAACCCTCTTCTTCATTGCAGAAAGCACCTGTTTGGCATTGTGGAAATC
GCCCTGCTAGACAGTTGCAATATTTTGATAGGCAGCCTTCAAAATGCCGTCTGCACCGCT
TTCGCGGACATAATGCCAACCTTTGGGCGGCTTTTGCAGACTTTCGTTGCGCCATTCGAA
CCCGTCATCGGGAAAAATAAAAGAAGACATGGGATACCTGCGTCATGTTTTGAAAATAGG
GCGGCAGAACCGCAAACCATACGGATGGTACAGCAAGGAGCGGCAACACAGAACAGTTTT
TTGTTCCCGCCTTGTCTTTCCAAGCCCATGCCGTCTGAAGCCGGAATGTTTCAGACGGCA
TCGCATCAAACTCCATAAATAAACCACATATGCTTGAAATAATACCTTCAACCCCAATGT
ACGCGAAAATCGGCAATCTGTCAGACACAAGAGAGTACCTATGACACAAAAAGAAAAGCA
TTTTGAGGAATATGCCGCCTTGGCAACCCTTCCTTTGCGGGATGTCGTCGTTTACCCGCA
TATGGTTCTGCCGCTGTTTGTCGGCAGACCGAAATCCATCGCCGCACTGGAAAACGCCAT
TACCCGCGAGGAGCCGGTTTTCCTGTTGGCGCAAACCGATGCGGCGGTAGAAGAACCGAT
TGCCGCCGACCTGTATCAGACCGGTACGGTCGCACAAGTCCTGCAAGTGTTGAAACTACC
CGACGGCACGGTAAAAGTATTGGTCGAAGGGCTGTATCGCGGACGTGTTCTGACCATTGA
AGACACGGGCGGTCTGTTCGTTTCCCATATAGAGACGGTCGTGGAAGAAGACACGGGCGG
CAATACCGACCTCGAAGCCGTGCGCCGCACCCTGTTGGCGCAGTTTGAACAATACGCCAA
ACTCAATAAAAAAATCCCCGCCGAAATTATCGGCAGCATCAACGGCATTGCCGAAAACAG
CCGGCTAACCGATACGGTCGCAGCGCATTTGCAGTTGAAACTGGCGCAACGCCAACAGAT
TTTGGAAATTCCCGAAATCGGCAAACGGATGGAATTCCTGCTGGCACAGCTGGAATCCGA
ACTCGACATTATGCAGGCCGAAAAACGCATACGCGGACGCGTCAAACGCCAAATGGAAAA
ATCCCAGCGCGAATATTATCTGAACGAACAGATTAAAGCGATACACAAAGAACTGGGCGA
AGAAGACGAAAACGGCGAACTGGATGCCTTGGAAGCAGATATCAAAAAGGCGGGTATGAC
CAAAGAAGCGGAAGAAAAAATGCCTGTCCGAACTGAAAAAGCTCAAAATGATGCCACCGAT
GTCTGCGGAATCCACCGTCGTACGCAACTACATCGACACTTTGCTCGAGCTGCCGTGGAA
GAAAAAATCCCGCGTCAGCAAAGACATCGCCAAAGCCGGACTGGTGCTGGATGCCGACCA
CTACGGCCTGGAAAAAGTCAAAGAACGGATTTTGGAATACCTCGCCGTCCAAAAACGTAT
GGACAAACTCAAAGGCCCGATTCTGTGCCTGGTCGGCCCTCCGGGCGTGGGCAAAACCTC
TTTGGGCGAATCCATCGCCAAAGCAACGGGGCGGAAATATGTCCGCATGGCTTTGGGCGG
CGTGCGCGACGAAAGCGAAATCAGGGGACACCGCCGCACCTATATCGGCTCTATGCCCGG
TAAGATTTTGCAGAATATGGCAAAAGCCGGCGTGAAAAACCCCTTGTTCCTGCTCGACGA
AATCGACAAATTGGGTAACGACTTCCGAGGCGATCCCGCCAGCGCGTTGCTCGAAGTGCT
CGATCCCGAACAAAACAACAAGTTTGCCGATCATTATGCGGAAGTGGATTACGATTTGAG
TGATGTGATGTTTATCGCCACATCCAATAGTCTGAATATTCCGACTCCGTTGCTCGACCG
TATGGAAATCATCCGTCTGTCCGGCTATACCGAAGACGAAAAAATCAATATCGCGATGCA
GTACCTCGTACCGAAGCAAATGAAGCGCAACGGTGTAAAAGAAGGGGAATTGGCAATCGA
AGAAAGCGCGGTGCGCGATATTATCCGTTATTACACCCGAGAGGCGGGCGTGCGTTCGCT
CGACCGCGAAATTGCCAAAATCTGCCGCAAGGTGGTGATGCAGATTACCTTGGACGAAGA
TAAGAAGAGGTTGTCTGAAACCAAGAAAACCAGCAAAGCCAAACCTAAAGCGGTTAAAGT
AAATGAGAAAAATCTGCACGACTATTTGGGTGTGCGCCGCTTCGATTACGGCGTTGCCGA
AAGCGAAAACCGTATCGGGCAGGTTACCGGTTTGGCGTGGACGGAAGTCGGCGGCGAATT

GCTGACCGTCGAAGCCGCAGCATTGCCGGGTAAGGGCGTGATTCAGTGCACCGGCCAGTT
GGGCGATGTGATGAAGGAATCCGTGTCCGCAGCGTGGTCGGTTGTCCGCTCCCGTGCGGA
ATCAGTGGGTTTGGCTCCTGATTTTTACGAGAAAAAAGACATCCACATCCACGTTCCCGA
AGGCGCGACGCCGAAAGACGGCCCTAGTGCGGGTATTGCGATGACCTTGGCGGCGGTATC
TGCCTTTACCAAAATCCCGGTACGCGCCGATGTGGCGATGACGGGCGAAATTACCCTGCG
CGGCGAAGTTTTGCCCATCGGCGGTTTGAAGGAAAAACTGTTGGCCGCCTTGCGCGGCGG
CATCAAACACGTCCTGATTCCGAAAGACAACGTCAAAGACTTGGAAGAAATCCCTGAAAA
CGTGAAAACCGGCCTGACCATCCATCCGGTCAAATGGATAGACGAGGTATTGGCTCTGGG
TTTGGAAAGCCAGCCTGAGCCTTGGGCAGAACCTTCTGGTGCGGAAGCGGCGGCGGAATC
CGCTTCAAAACCAAAACCCCGCAGCAGGGCAACCAAACATTGAAACGCAGGAAATGTGTT
GTAAAAATGCGGTTTCGTCCTGAAAGCCTGTCAAATAGGGTGATTCCGTATTTTTTGCTT
GACACGGCAATTTCAGAATTGCTATAAAGCGAAAGTTGCTCAAGCAGTACAAACCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 274>:

gnm_274

AAAATCCCGTCATTCCCGCGCAGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATCG
GGAATGACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGAATGACGGAATGTAGGT
TCGTGGGAATGACGGGATGCAGGTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCG
GGAATCTAGACATTCAATGCTAAGACAATTTATCGGGAATGACTGAAACTCAAAAAACTG
GATTCCCACTTTCGTGGGAATGACGAGTGGAAGTTACCCGAAACTTAAAACAAGCGAAAC
CGAACGAACTAGATTCCCACTTTCGTGGGAATGACgyGGwGCAGGyTTCyGTATGGATGG
ATTCGTCATTCCCGCGCAGCGAAATCTAGACATTCAATGCTAAGGCAATTTATCGGAAAT
GACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGAATGACGCGATTAGAGTTTCAA
AATTTATTCTAAATAGCTGAAACTCAACGCACTGGATTCCCGCCTGCTCGGAATGACGAG
TAGAAGTTACCCGAAACTTAAAACAAGCGAAACCGAACGAACTGGATTCCCGCTTTCATG
GGAATGACGGGATGCAGGTTCGTAGGAATTACGTGGTGCAGGTTTCCGTACGGATGGATT
CGTCATTCCCGCTCAGGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATCGGAAATG
ACTGAAACTCAAAAAACTGGATTCCCACTTTCGTAGGAATGACGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 275>:

GNMCK14F gnm_275

CCAAAGAAGTGACGGAGTTGATGTGCACAGGACTATGTAAAACGGGCTTGCCGTTTAACC
CATACAAAGAAGAAAGCCAAGGGCAGGAAGTTCAGCAAAGCGCGCACAACATTCGGACAG
GGCGCAAGTTGCCACATTGGGCGGAAAACCGTAGCAGAACCTAATGTACGATAATTGGGA
AGAACGCGGGAAACCGTTTGAAGGAATCGGACGGGGGCGTGGTCGGATCGGCAAACTGAA
GAAAACGGCAAGAGAGAAAAAAGACCCGTAAACCGTTTGAATATAGACGGTTTACGGGTC
TTTGTTTCGCGCAAAGCAAGGGCTAAGGCAGTCAGGCAGCAAATCCCGCAATGTATTAAA
ACAGACGCGTAGAAATGCCGGCTGCCTGGAGCGTTTTTCTTTATTGAATATCATCCTAGC
CGTATCAAGGCTGTATGAATATGTTTTTTACCAATGAATATAATCGGGCTGGACATCTCA
AAGGACACCATAGACGCAACATTGCATAAAACAAACGGAAGTATCCATTACATTAAATTT
AAGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 276>:

gnm_276

TTTACCTGCTCTTTTAATTGCAGCTTCATCAATTCGATGACACCTTGACGGTGTGCCtGC
TCTGCGGCTTCTGTGGTATCAAACAGGCGCAGGGCGATGCGGCCGTCTTTTTCTTTTTGT

AGGCCGAGATAGCCGGTGAGCTGTTGTTTGCCGCGTGCGAATTTGATGGATTCGGGCAGG
GTGCCGATGTCCCATGCGGTGACGTTGTCGCGCTCAAATTCTTGGGTGTTGTCACGGAAG
GTAACGGCGGCAGCTTGACCGAGTTGTTGTTGCAATTCGTGCAGTTTGCGGCCGCCGGCA
AGCTCTTGTCCGCCGTCGTCGATAATGCGGAGGTTGAAATAGCAGTGTTCGGGCAGCCTG
AACGCGGCCCATTCGTCTTGGTTGATTTGCTCGAATATGCGGATGTCGCCTGCGGTTTTG
GCGATGGCTTGGGCGAGTTGGGGCAGGATGGGGGCGTTGCGGTCGGGCATTCGCTTTCGT
TCCACCGTATTCAAAATACCGATGAAGGGGCGATGATTGTCAACCACAATCAAGACAAAG
AATCCACCGTTACCATTACAGGCAATAAAGATATTGCTACAACCGGCAATAACAACAGCT
TGGATAGCAAAAAAGAAATTGCCTACAACGGTTGGTTTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 277>:

gmm_277

CATTAAAAATAAGTTTTTCCTTAATTTTTCTTAGTGCTTGTTTTTATCTGCTTATTTGTT
GCAATGCCGTCTGAAGCAATGTGCGTTTCAGACGGCATTTGGAATTTCAGTTGGGCAGGG
TATCGGACGGTACGGTTTCCGGCTCTTCTTCATCCGTAGGCGGCATTTCTATCAAATCGG
GCAAAACCAGTTCGCCCAGTTCGGTCAGCGGCGGCAGTTCTTCCAAGCTGTTCAAACCCA
AATCGCTGAGGAACGTTGCCGTTGTCGCCCACAATGCGGGTTTTCCCAATGTGTCCCGAT
GTCCGATGACTTCAATCCACCCCCGATCCTGCAAGTCTGCATCACGTTCTGCGACACCGC
CACGCCGCGTATGCCCTCGATGTCGCCGCGCGTTACGGGCTGCTGGTAGGCGATAATCGC
CAGTGTTTCCATCACGGCGCGGGAGTAGCGCGGCGCACGCTGTTCTTGCAGGCTGCCCAG
CCGCTCGAATGCCGTCTGAACAATCTGAAAACGCCAGCCCTCTTGCGTATGCACCAGTTG
CAACGCCCTATCCTGCCAACGCGTTTTCAACTGCGCCAACACATCAATCAGTTTGTCTTG
CGACAACGGCGGCACACACAGTTCGCGCATAGATTTTTCGGTCAGCGGTTCGGTTTGGGT
CAGCAGTGCGGCTTCAATCAGCGCGTCGGGAGAAATTTTGTCGGTCATACGGGTATCCGT
GCTGAAACGGCATGGGTTTGGATATGCCGTCTGAAATCGGTTGGAGTAGAGAGAAGCTGC
CTGAAAAATATTTTTCAGACGGCATTCTTTATGCTTCCGAAGCTTCTGCCCTTTACGCTC
TGCTTTTCTGGCTTCGCGTATGGCTTTGAGTTCGGCTTCTTTCTGACGGGCTTTTTTGAG
CCAAGTTTCCCATTGGTTCGGCGTTTCGAGGGTGATTCTGCCGATTTTGCCTTCACGGAA
GTCGGTGAGGATGTTTTCGGCGGCTTTTTGGTAGTTGATCCGTCCGCCGCTGAGGACTGC
GCCGCGTTTTTTGGCTATCCATTCGAGCCAAACGTTTTCGTCCCAGTGGCTGCTGGGGTC
TTTGTCGGCTTGGTAGCGTTCTTGCAACATAGGGAGGTAGTGGCGGCGGAGGTAGTCTAA
AAGTTCGAGGGCGACTTCTTCTTCGTCCAACGCGTTGCGTCCGACTGCGCCGCCGGCGGC
AAGGTTGTAGCCGCCTTCTTCGACGATGATTTTCGGCCATAGCATTCCGGGGGTGTCGTA
GAGCCAGAAGTCATCGGCGAGGAAGAGGCGTTGTTCGGCTTTGGTGATGCCGGGTTCGTT
GCCGGTTTTGGCGGATTTTTTGCCTATCATGCCGTTGATGAGGGTGGACTTGCCAACGTT
GGGGATGCCGCAGATGAGGACGCGCAGGGGTTTATCTATGCCTTGGCGGTGGGGAATCAT
GGCACGACAGGCTTGGGTAATTTTGCCGTGTGCGCCTGTTTCGGAGGAATCGAGGGCGAT
GGCGCAGGTGTCGGGGCGGCTGTTATAGTGTTCGAGCCAGATTTTGGTGCGCTCGGGGTC
GGCAAGATCTTGTTTGTTGAGGATTTTAAGTTTGGGTTTACCTTTGGAAAGCTGGGCAAG
CAGGGGGTTTTCGCTGGAGGCGGGCATACGCGCGTCCAGCATTTCAATCACCATATCAAC
GCTTTTTGCACGCTCGGCGATGGCTTTTTTCGCCTTGTTCATATGGCCGGGAAACCATTG
GATTGCCATGTCTGTTCTTTCTTTTCAATATTTGAAATGCCGTCTGAAACGGAGGACGGG
GTTTCAGACGGCATAATGGTTTGACGGAATTAGCGGTCTGACAGGTTTTGCGCCTGTCTG
TGCCGTATCAGCAATTCATAACGCCCTTTCAACCTTCGGGCGAGTTTTTCGACAATATAG
ACCGAACGGTGCTGTCCTCCCGTGCAACCGATGGCGACGGTAACGTAGCTCCTGCTTTCA
TCCTCCAAACGCGGTAACCAATGCGTAACAAACCTTTCGATGTCGTCAACCATTTCCTGC
ACAAGCGGCTGTCCGTCCAAATAATCCCAAACGGGCTTGTCCATACCGGTGTAAGGCCTC
AACTCGGGATCGTAATACGGGTTGGGCAGGCTGCGCATATCGAACATAAAATCCGCGTTG
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ACCTTCAGCCACTGCCGGACTGCATGGCGGAGCTGTTGGGCATTCATCTTGGAAGTGTCG
ATACAATAGGCGATTTCTTTAAGCGGGAACAGCCATTCCCGTTCTTTCTTTAAGCTTTCC
AACAAGGTCATATCCTGATTGCTCAGAGGATGTCCTCGCCTGGTTTCGGAAAACCGGCGG
ACCAACACGCTTTCTTCCGCCTCGACAAACAAAACTTCAACCCTGTGCCCCAGTCTGCGC

AGAGAGGCAATCTGTTCCCGCGCCTGTCCGATGTCAATGCCGGAACGCACATCGACGCTG
ACCGCCAATTCGGTTTCGTCCGCACGTTCGATATGATACGACACCAGCGCGGGCAACATT
TCCAAAGGCAAATTGTCCACGCAGAAATAACCCGAATCTTCCATTTGGCGCAGTGCGACG
GACTTGCCCGAACCGGACAGGCCGCTAATCAGGACGATCTTCATTGTGTTGTTCGTTTTC
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CAAAATGTAATTGCGTACCGCCGCCTCAACCAAAACGGCGAGGTTGCGTCCGACGGCGAC
GGGCAGCGTAACCGAACGGACGTTGACGTTGAGGATGGATTCGGTTTCGGTGCGGATGCT
CAACCGGTCAAGCTGCTTCATATACTCGTCGTCCGCCTCGACTAAATTGATAATGAGTTG
CAGGATTTTTTTGGGGCGGATGGAAGTTTCGCCGAAAATATGGCGGATATTGAGTATCCC
CAAGCCGCGCACTTCCAAAAAATCGCGCAGCATAGGCGAACAACGCCCTTCCAGCGTTTC
CGGGCCGATGCGGAACAGCTCGACCGCATCGTCGGCAATCAGGCTGTGGCCGCGCGAAAT
CAGTTCCAATGCCAATTCGCTCTTACCCAGGCCGGAATGCCCGGTAATCAGCACGCCGAT
TTCAAACACATCGAGAAATACGCCGTGTTTGACGGACGATGCCGCCAAGGTGCGTTGCAG
GTAAATCCGCAACACGTCCATCAGATAGGGGCTTTCGAGTTTGGAAGTCAGCAGTGGAAT
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AACCAAAGACATAGAAATATCGAACAGGTCGCCAAACTGATAACCCGTTTCCCCCGATTC
GAGGCGGTTCAGATATTCCGACTCTGCCAAACCGACCACTTGGATTTGGTTGGGATGAAT
GAAATTCAGGTGTCCGACTAGGGCGAGGACGGCTTGTCCGCCTCTACGCCGATACGGTT
GTCCGCACCCGAATTGCCGGCGGCCCAAGCGAGTTGCAGTTTGTATTGGTTGTCATCAAA
CAGGCGGCGGACGGAGATACTGGGCATATTATTCTTCAGTCAGGATGGCACGGACTTCTT
CCGCAGAGGAAACCGTCATCAGCGATTCTCTGATGCTTTTTTGGGAAAACTTGCCGGCCA
GTTTGGATAAGACTTCCAAATGCTCGCCGGTTGCGTTTTCCGGAACCAGCAAGATAAAAA
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ACGCGCCCGTCGCCTGCTTCACGCCGGCATGACGGCCGTGCGGGATGGCAACGCCCTGCC
CCAAACCGGTCGAACCGAGTTTTTCACGGGCAAAAAGACATTCGAAAACATCAGCATGGG
ACAATGAGGATTCGCGTTCCAAAAGCAGGCCTGCTTCCTCAAACAGCCTTTTTTTACTGC
CTACCTCCATATCCAAAACAATATGGGACAAAGGCAAAATTTCGCCGATAAGGCTCATAA
GCTTCTCTTTTCAGACATCGCAAAACAGAAAGATTGTACCGACTGCCGGGGCAAATCTCA
ATCCCGCATACGGTACGGGCTGACATAACACAGCGTTTTAAAAACATATTTTAACGCTTT
TCGGCACAGATAGAAATGCCGTCCAAAGCAGTTTACGGCTCTTCAGACGGCATTGCCCTG
CCTTATTTCGCGAAAAACGTATGGGCAAAAAATGGCGGTAAACCACACCCAACCAATTCTG
TTGTTTGCCAAAAACGTTTCAAAACAGATTTGCCGGACGCGGCTTTTGATGGCGGCATAT
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CGGTCAGCAGCATTTCCTCGCCGTGACGGGAAAACCGAGAACGCCGCGCGGCAAAGTACC
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CTTGAAACAGACGCTCGCCCAAAGGACGCGTGCCGCAGTCCAAAATGTTTTGCCAAAACG
CCGAACCGATACGGCATTCGCTCCTTGCCTCAACAACAGGGATACGGTCCAGCTTCAACA
AAACTTCGCGCACCAGCCTCCCTCCGCATTCCGTCTCCAATTCGCCCAGTTTCAGCAGTT
CCACCGAAAATGTATGCGGCAAGGCGCGCAATGCGGCGGTCAGCGACCGGGTGTGCAGCA
GCCGCACCATCGGCAGGCTGATGCCGTCTGAAATGGCGGCGGGCAAGTCGGGCAGCCATT
TCCCAAATAGGTGTTCCATATATTTTTCCCAATCTTTATACCGCGTCTGTTTTTGCCAACTC
CATCCATTCCGCTTCGGAAAAAATCGGCTTTCAGACGGCATTTCAAGTAGCTCAGGCTGTC
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AATGCCGTATTGTTTGAGCGCGGCGAAACTGAGTAAAGTGTGGTTGATACTGCCGAGCCG

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CGCCGCCAATTCTTGTGTGGCGGTGCGGATTTTGTCCAAGTCCAAAGCCCTGCCATCCAG
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CAATTGTTTTGCCAACACGCCGGTGGCGACGGTTTTGCCGATGTCCGTGTCTATGCCGCT
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AGTTTGGTCAAAACGCCGTCTGAAATGATATAGGGCGGCATCAGATACACCAGCCTGCCG
AACGGGCGCACCCAAATGCCCTGCGCCACGCAGTCCGCTTGAAAACGCGCCATATCCACG
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TGCCAGTCTTGAGACAAAAGCAGTTTGACCGAAGCGCAGGCAACGGCACACGCCAGCGGG
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CACCACCAGGAGGACATCCCGTCAATCAGCCGCGTGCCGTCCGCCAATTCGATAAACACC
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CAAAAATCAGGACAAGGCAACGAAGCCGCAGACAGTACAAATAGTACGGCAAGGCGAGGT
AACGCCGTACTGGTTTAAATTTAATCCACTATAAAACGGCAATCCATACGATACAGATCA
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CCGCCAAAACCAGGCACGGCTTCTTATACTTATGATAGATTTCCACCATCCTGTCCCATA
TATACCAAACATTCATACCGTATATCCCGCAGGCAACAAATTCCGATTGAAGGTTACAGC
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GCGTTTCGGGAACGATTGCCGCCGTAAGGCTCTTCAACCGTATATTCTCCCTCGATAATA
TCGTCATCGCGGGAAAAGCCCTCTTTTCTGCCCGATTGGTTCATGTTGAAAAAATTTTCC
GCACCTCCTGCCTGCAACACTGCCCCTCCCTTAAACGGCAGCAGCAGCAATACCGCCAAC
ACCGAGGATACGAATCCCGGACTCATCAGACACACAGCCGCCACCGTATAACGGATAGGC
CACAACATCTGATAAACGGATACCCTCCCGCCGCTTCTCATTGCCGCGCCCGCCAATAAA
AGACCGGACAGCCCCGTATGCCTGAGCATCAGCACGCCGGCGGCAAAACCTGCCGCCATC
AAAAACAACGTCCAGCCGCCGCCCAGCCAATCGGCAACCCACACAATCGACATAATCTCC
AAAAACAGCAGCACCAAAAAAACCGATACCGAAAAATCTCATTGACCGTCATCCTTATATT
TAAGTAAACAGCAAACCGCCCGAACAGGACTCCAAGCGAGCTGCCTGTAAATGATTACAA
AACCATGTGCTTCAAGCCGAAACAATGTGAAATCTCGCAATATAGTGGATTAACAAAAAC
CAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGATCAATTCTCTAAGGTGCTGAAGCACC
AAGTGAATCGGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 278>:

gnm_278

GATGATGATCTTCCTATAGAAATAAGCCTGCCAAACTGGGTTCCGGGCAGCTATCTGATT
CGGGATTTTTCCCGCCACATCACTTCTATCCATGCATCCTGTAACGGCACGTCCATGCCG
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CGCTACACCGTATATGCATTCGATTTGTCGGTTCGAGGTTCTTTCCTGACGACAGAACGC
GGTTTTTTTGACGGATCGTGCCTGTTTTTGAAAGTCGAAGGAACGGAAACGCTGCCGCAC
CGCTTGGAATTGACGGGTATTCCGTCCGAATGGCGTATTGCCACAACGCTGCCGGAAACA
GGGAGGTTTGTCTTTCAGGCGGCATCTTATGCCGAATTGATTGACCGACCTGTCGAGATG
GGCTTGATTGAATTTTTAGATTTTGAGGCGGCAGGCATTCCGCACACAATTGCCTTAAGC
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GTCGGCGACCATATTTACGGCGGTTTGGAACACACCGACAGCACCGCCCTGCTCGCCGAC
CGCCACAGCCTTCCGCCGTACGGTATGACCGATGCCGACGATACCTACACCACATTGCTC
GGACTTTTCTCCCACGAATATTTTCACGCGTGGAACGTCAAATCCATCAAACCTGCCGCG
TTCGTCCCTTATGACCTCGACAAAGAAAACTATACCGAACAACTATGGGCATTCGAAGGT
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TATTTAAACCTGCTGGCACAAGGCATTACGCGCGTACAACAAACCCGCGGCCGTTTGAGG
CAGACCTTGGCGGAATCGAGTTTTACCGCGTGGAACAAATTTTACAAACCGGATGAAAAC
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CAGGAAATTACCGGCTTGGATTTGGAAGATTTTTTCCAAAAAGCGTTATACAGTACCGAA
GATTTGCCGCTTGCCGAATGCCTGGCAACCGCAGGCGTGGGACTGACCTTCCTGCCGCTT
CCCCGACAACACGGCGGCGGATACGCAGAACACATCTGCCCCGTCCCGTCGGCAGGCGAT
TTTGGCGCACGTTTCAAACAAAACACCGACCACATCGTCCTGACCCATGTCTTCAACGGC
GGCAGCGCGGAATCTGCGGCACTGTGCCCGCAAGACAAAATCATTGCTTTAGACGGTTAT
GCCTGCACCGACTTTACCGCACAATGGGCCCGATACCACGTCAATGCAAAAATCAATATC
CACTTCTTCCGTGCCGGCATATTGCGTCAAACCGTCTTGACGGTTCAGGCAGCGGCAGCG
GATACTGCCATCCTACATATCACAGACCGGAACCTGTTGGACAACTGGTTGTTCGGTTAA
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CAAAATGGCCATTCTGAAACTTGACGAACACCTCTATATTTCTCCGCAACTGACCAAAGC
CGATGCGGAACAAATCGCGCAACTGGGCATCAAAACCGTCATCTGCAACCGCCCCGACCG
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CTTCCGCCAACTCATCGGACAAGCCGAATATCCCGTCCTTGCCTATTGCCGGACCGGTAC
GCGCTGCTCCCTCCTGTGGGGCTTCCGCCGGGCGGCAGAAGGTATGCCGGTTGACGAAAT
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CAACTTGAAAAAGAGGACGGCAAACCTTACTGCCGTCCTCTGTCCTTCTCCGTTTTTACA
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ATCGTATTCCACCGCCTTGTCTGCCGCAATCGCCACAATCACGTTTTCATTCTGCTCCTT
GGCGGCTTTCAGACGGCTTTCCACTTCCCCGATTTCCACTTTGCTTGCAGAATCCCCGCC

GACATAATAGCCGCCGTTCGCATCAATCGTCAGGCGCAGGGGGTCTTTAGGCTGTTTGTC
CTGCTTGTTTGTCTGCTCGGACGCGGTCGGCAGTTCCAAAGGGATGGAATGCGTCAGCAC
CGGCATAGTAATCATAAACACAATCAGCAACACCAGCATCACGTCCACCAACGGCGTAAC
GTTGATGTCGGACATCGGAGAATCGTCGCCGGAATTCATCGAACCAAATGCCATAATCAG
CTATCCTTTTGATTAAGCAGGCGGACGTGCAAATCGTGCGCCATCGCATCCAAATCCTGG
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AACAAACCCGCCGCCGTCGCCACCAGTGCCTCGCCAATCGGCCGGCAACCGCCGCAATA
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AACAGCCCGATAAACGGCGCGGTCGCGCCGATGGAGGCAAGCGCGGTCATCCCGTAATCA
AACCGGCGCATAATCTGCGCCATACTGTTGCGGATTTGAATGACCAAATACTCGTTCAAC
GGCAAAGCCTGCGCCAGTTCGGACGCTTCGTTTCGGCGGTAGTTGCGGTAAGACTGCAAT
GCCTCTTGCGCCAGTTTGGACAAAGGCGCATCGACGGCGCGCACTTTTTCGACCGCGTCG
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AACACAAACACACCAATCAGGACGGGATCGCCCGATTCAAACACTAATTTCAAATTCATA
ATGATTCCAACACTGAAAAAACCAATCAAACATCCAAGCTGCCGCAAACCGCTGCGGCAA
CCGCCTAATTCAATTCAAACTTGACGGGGACTTTAAACTCCGTCCAGGCATTGGCTTGAA
AATGCCCGTTTTGCGCCGCCTTGCGTGCCGCATTGTCCAACCGGGAAAAACCACTGCTTT
TCACGATTTTAACGGACTCAACATGACCGCCCGGAGAAACCAAAACGCTCAAAACAACCG
TACCCTGCTCGTCATTCTCCATAGAAAGCGTGGGATAAGCCGGGCGCGGAATGCTGCCGT
TGGCGCGTAAAGGATTGCCTTTGCTGCTGCCGGCTCCTTCCCCGTGTTCGCCTTTGACAC
CGCCGCTACCTTTACCGCTGCCTTCTCCGCGCCCCGTTCCGTCTCCTTTGGTACCAGTTC
CCTTATCTTCCCCATTGCCCTGCTCGCTGTCTGCTTTGGCAGAAGCATTGCCGGGATGTT
CGGCAGGTTTTTCAGACGGCTTCTCGACCGGTTTTTCCGCCGGTTTCGGGACAGGCTTCG
CTTCCGGCTTAGGCTCTGGTTTCGGTTTTTCTTCGGGTTTCGGCTTTTCTTCAGGTTTCG
GCTCTTCCTTAGGCTGCTGAATATCCGCATCCGCCTTTTTCGTAACCACCGGCTTCAAAA
CCGGCTTGGGCGGCTCGACAGGTTTGGGCGGCTCGGGCACGGGTTGCGGTTCGGGCGCAG
CAGGCGCGCCTGCACCTTCGGGGGCGCCGTCCCCTCCGCCAAAATCGCCCAAATCGACAA
ATTCAATAACATTGCCTGACTCTATCACGGGCAGCTTGTGCGCCTGCCAGAGCAATGCCA
CCATTGCCAAATGCAGCAGTGCGACGGAAAACACGACTGCGGGGGTTAAAATTCGTTCTT
TATCCATAATTCGGGCATAATAATAGCAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 279>:

gnm_279

ACGACCAAGGTACGCGCAATCTGGTGGCGGCAAGTATCGCCATCGATATGGTCAAAGTCC
TGTCCCGCGAAGGCGTGAAAGATTTCCACTTCTATACGCTTAACCGCAGCGAGCTGACTT
ACGCCATTTGCCATATTTTAGGCGTGCGCCCTTAAAGCCGTATCAAACAGTTTCAGACGG
CATCTAAGGTGTCTAAAAAGCAAAACACCGCCCCATCCGAGCCATTCTGATTTACAATAC
CGGCCGATTCGGATTGAACCGGTCCTTACAAAATCCAACTGGAGAGTTCAACATGACAAC
ATTACATTTCTCAGGCTTCCCGCGTGTCGGCGCCTTCCGCGAATTGAAATTCGCACAAGA
AAAATACTGGCGCAAAGAAATCAGCGAGCAAGAATTGCTGGCTGTTGCTAAAGACTTGCG
CGAGAAAAACTGGAAACACCAGGTCGCTGCCAACGCCGATTTCGTTGCCGTAGGCGATTT
CACTTTCTACGACCACATCCTCGACCTGCAAGTCGCCACCGGCGCGATTCCCGCCCCGCTT
CGGCTTCGACAGCCAAAACCTGTCTTTGGAACAATTCTTCCAACTGGCGCGCGGTAACAA
AGACCAATTCGCTATCGAAATGACCAAATGGTTCGACACCAACTACCACTACTTGGTGCC
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GTTGCCTGTTTACGTTGAAATCCTGACTGCTTTGGTTGAAGCCGGTGCCGAGTGGATTCA
AATCGACGAGCCTGCTTTGGCTGTCGATTTGCCTAAAGAATGGGTGGAAGCCTACAAAGA
CGTTTACGCTACTTTGAGCAAAGTAAGTGCCAAAATCCTGTTGAGCACTTACTTCGGTTC
TGTTGCCGAACACGCCGCATTGTTGAAAGCCCTGCCTGTTGACGGTCTGCACATCGACTT
GGTACGCGCCCCCGAGCAACTGGACGCGTTCGCCGACTACGACAAAGTCCTGTCTGCCGG

CGTGATTGACGGCCGCAACATTTGGCGCGCCAACCTGAACAAAGTTTTGGAAACTGTCGA
GCCTCTGCAAGCCAAACTGGGTGACCGTTTGTGGATTTCCAGCTCTTGCTCGCTGCTGCA
CACTCCATTTGACTTGTCAGTTGAAGAAAAACTGAAAGCCAACAAACCCGACCTGTACTC
TTGGTTGGCATTCACCCTGCAAAAAACCCAAGAATTGCGCGTTCTGAAAGCTGCATTGAA
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GTCTTTCGTCCGCAACGACATTCCTCGCTCTACCGTGTGCAAACAAATCGCACTGGCTCT
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ATACCCGAACGACATCGGCCCGGGGTTTACGACATCCACAGCCCGCGCGTACCGACAGA
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GGTATGCTGGTCGGTAAAGAAGACTTGGGCTTCGGTAAACGCTCTTGGCGTTACTCCATG
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TGGCGCACCTGTTGGCTTGGGCACATCAAATGAAGATGACCGTTCCGCAAATGCTGGATA
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TAAAAATCTTTCTATTTAATCTGCTGTTTCCACGCGTGTTTGTCAAAATCTATCAGTTTG
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CTGCCAAACCGCGTCCTGTTTATCTGGATTTGCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 280>:

gmm_280

GCATACACGCCTTAACCTTAATTTGCAAAATGACCGTGCCTAAACAATGCCGTCTGAAAG
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CATCAGTGCGGATGCGTTTGAAGTCGGACAGGATGTGTTTGATGCGTTCTGCACGCCCAT
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CGCGCTCGCCCGCCTGATTCTGAAGCGCGAAGGCGTGGGCGGCGTATATGGCGGCACGCA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 281>:

gnm_281

GTATTCTGGGACAGCCGTAGACTTACTTATTATCCTAATGTTATTTTTTGCCAAAAGAAA
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CGCAGCCAGGCCGCCCTTCAAAACAAACGTCCCGAGCCCAAAAAGACTGCCGCCGCCGAC
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CTGCTGGAGCAGTTGGGCATAGATTACCGGCCTTAATTTTGCGGGATATACCGTCTGAAA
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TTCACGTAAGAATCGTTTTCCTGTTTTCATTTTTAATTTTCGAAGAAATTATGAACACAC
GCATCATCGTTTCGGCTGCGTTCGTTGCGTTGGCATTAGCAGTTGCGGCTCAATCAATAA
TGTAACCGTTTCCGACTAGAAACTTCAGGAACGTGCCGCGTTTGCCTTGGGCGTCAGCCC
AAATGCCGTAAAAATCAGCAACCGCAACAATGAAGGCATACGCATCAACTTTACCGCAAC
TGTGGGTAAGCGCGTGAGCCAATGCTATGTTACCAGTGTAATCAGCACAATCGGCGTTAC
CACTTCCGATGCAATTTGTTTGGGAGGCGGAACGCACAAAGGCAAAAGTCAATGCAATGC
TTTGCTTAAAGCGGCAGGCAGTTGCTAATCCTTTATTCGGAAAAGGTCGTCTGAAAATAT
TTTCAGACGACCTTTTATTTATTGAGCAAATTCCCCAAACTGCCGACAATCCGACCGATA
AACTGCTACAATTTCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 282>:

GNMCL71F gnm_282

CCGAAGTTGGATCGCTCTAGAGGATCCCCTGCCGATGTAGCGCGCTCCTGGTACGGGCAT

AATGCCCTGGGCTTCTTCCTGACTGCCGGCTTCTTGGGTATGATGTACTATTTCGTACCC
AAACAAGCAGCCCGCCCCGTTTACTCCTACCGCCTGTCCGTCGTTCACTTCTGGGCGTTG
ATTTTTACCTATATGTGGGCGGGTCCGCACCATCTTCACTACACTGCGCTGCCTGACTGG
ACGCAATCTTTGGGTATGGTTCTGTCTTTGATTCTGTTCGCACCCTCTTGGGGCGGTATG
ATTAACGGCATCATGACCTTGTCCGGCGCGTGGGACAAACTGCGTACAGACCCGATTCCT
AAAATCCCGGATGGAACCCTGGTCCTTCTACGGAATGTCTACCTTTGAAGGCCCGATGAT
GTCGATTAAAACGGTCAATGCATTGAGCCACTATACGGACTGGACCGTCGCGCACGTTCA
TGCGGGTGCGTTGGGCTGGGTAGGCTTTGTAACCATCGGTTCCGTCTATTACATGATTCC
CGTCTGTTCGGCAAAGAACAGATGCACAGCACCAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 283>:

gmm_283

TTGAACAGGTTAcGAATTTGTTGTTGAATTTGTCCACGCGGCCGGTGGTATCAACGATTT
TTTGGGTGCCGGTATAGAACGGGTGGCACAGGGAGCAAACCTCGATATTGAAGTTTTCTT
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ATGTACCTATGCTACAGACAAGTCCGACATTCTCGCTATTTTCTGTTGTTACGTCAAGAG
TATATTCGATAAAATGTATAGTGGATTAACAAAAACCAGTACAGCGTTGCCTCGCCTTGC
CGTACTATCTGTACTGTCTGCGGCTTCGTTGCCTTGTCCTAATTTTTGTTAATCCACTAT
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GCGCGGTTTTTTGGCGCGGCGGTTTCTCCGCATATCGGACGCGGGGTCAATATCGAACG
CGGGGCGTATGTGTTTCCGGATACGGTTTTGGGCGACGGCTCGGGCATCGGGGCAAACTG
TGAAATCTGCCGTGGGCTGGTGGTCGGCAAAAATGTGATGATGGAGCCGGAATGTCTGTT
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CGTCCGATTACGTTGGAGGACGATGTCTGGCCGGGGCACAGGGTGATTGTAATGGCGGGC
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TGCGCTTCAGACGGCATCGCTATTGCGCCACGCGCGtATCGATATCTTGGTAGAGTTTGC
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CGGTAAACGGCAAACCGTAGTCTTTGACATATTGGCGGACGCTTTCTATCGGATCGATGG
GCTGGGCGACGGCAAGTACTTGGAAGTTTTTGTTTTTATAGTCATTTGCCGTTTTAATGA
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CGGGCGCGGTTTTGCTGTCGGGGATGAGGACGATGGCAAGGAGGATGCCGATCAGTGCGA
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GTCGAACGCAAAGCCTTGTTGACGCGGCTGATCAAGTGGGCAATCACGCCCAAGGAAATC
GGATCGAGGCCGGTAAACGGCTCGTCGTACAACATAATTTCAGGGTCGAGCGCAATCGTG

CGGGCAAGCGCGACGCGGCGCGACATCCCGCCGGACAACTCGGACGGCATCAGGTTTTCC
ACACCGCGCAGACCGACCGCGTTCAATTTCAACAAAACCAAATCCCGAATCACCGCTTCC
GGCAGGCGCGTCAGTTCGCGCATCGGAAAAGCGATATTGTCGAATACCGACAAATCAGTA
AACAGCGCGCCGTGTTGGAACAATACGCCCATACGGCGGCGGTGTTCATACAACTCGTCA
GCCGAAAAGCCCGCCAAATCCCGTCCTTCAATCAAAACCTGCCCGGACTGCGGACGAATC
TGTCCTGTAATCAGTCGCATCAGCGTGGTTTTGCCGCTGCCCGAACCGCCCATTACGGCA
GCAAAATTGCCTTGCGGAATGCTGAAATTGATGTTCTTCAGAATCGGGCGGTCGCCATAC
GCGAAGGCGACGTCTTTCATTTCGATAAAGGGGGATGGGCTCATGTACGGACGGACGGTA
GGTTTGACGGCGTGTATTTTAAGGCTTATCGGGAAGACGGGCAATTTTCAGACGGCATAC
GGACGGTAAATGTTGTGAAAATGCCGTTGTCGGCGGCGGATTGTTTGCTGTGGCGAAAAA
TGTTATCTTTCAAATGATAACCTTTATCAGAAAACTATGGAAAAAGCAGAACATTTGAAC
AGCAGCCGGTTCGTCAATCTAGTCAAAAGCGGCGGCGGCAGCTATGTGGAGGGCAGCTAC
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GATTTTTGCAGCAGCCGCCTCGCCGAACCTTATGTGTCGTTCGTGCTCTTGCTGGAAGGC
AGTTTGGACTTCGGCATCAaCCGCTGCCGCTTCCAAATCGATGCGGACGGCGGCAAGATT
GTCCTAATTGCTGTCGGGGAAGAAGTCCTGTTCAGCCGCTATCTTTACCGAGGCGGCAAA
ACGGTCAAAATGACCATTAAAGGTATGGAACAATGGCTGCTGCGTCCGGAATACGCGCGT
TTCGCACCCCTGCTTTACCGCGAACCGGTCAGGATATGGGATTTGCCCCCGAACCTGCGC
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CGCGAGGCGGACGTGTTGCGGCTGCTGTCGGACTTGTGGGACACGGTTTCAGACGGCATC
GGGCCGGCGGCGGGGCAAACGGCGGAAGCAGACGCTATGCCGTCTGAAGACTTCAGCCGC
ACCCTAAATGCCGCGTTTGCCGACGGCGCACACCAAGTCAACCGGCTGACAGACGCGCTG
AACATCAGTGAAAGGACGCTGCAACGCCGTATGCGCGACCATTTCGGCATTACGGCAAGC
GAATGGCTGCACCACAAACAAATGCAGCACGCGCTCTATCTGTTGCAAAACGGGGGAAAA
AGCATAGGCGAAACCGCATATTTATGCGGCTACCGCCACGTTTCCAGCTTTACTCAGGCA
TTCAGGCAATATTTCGGCAGCACGCCTGCGGAAACCAAAAAAGAAAACCGGTAAGCCGCA
TTTGATTTCAAACCCGAAATCCGCGTGTATAGTGGATTAACAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 284>:

gmm_284

CTCGCACGTATGGTTACCTCAGGCGAGGCGGACTTGGCGATTGTTACGGAACGGATAGAC
GACCATCCCGAACTGGGAAAACTTCCCTGCTATGACTGGACTCATGCGGTTATCGTACCG
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CCGCTGATTACTTATGAATTTGCATTCAATGCGGGCAGCAGCATCGCGCGGGCATTTTCC
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ACTTATGTGCGCTTGGGTTTGGGCGTGGGACTGATGGCGAAAATGGCGTACAACCCGGAT
ACGGACGGCGATTTGCAGCTTGTGGATGCGGCACACCTGTTCGAGCCGTCGCCGACGTGG
ATTGCTTTGCGCAGCGATACTTATTTGCGCGGATATGCCTACGACTTTATCCAAGCGTTC
GCGCCGCACCTGACACGCGAGAAGGTGGATAGGATTCTGTACACGCCCATCAGCGAGGAT
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GACAGATGTTTTCGTCTGCCCTGTGTTTATTGAGAATGCTGTCTGAAATGTTCGTACGGG
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CATTCAGGATTTCGACCCCAAAGTGCAGGCGGCGGTCAACCGCATCCAAAGTTACGAAGA
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GGCGACAATACCCAAGAAACACCAATACCGCCCAGCTTGCCCCAACGTATCAAATCGCCC
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GCCAAAAGCGCGGACATCATAATAAACACAAACTGTATGGGTTCGAAATCAACACCCTTC
AAATCGACGATGCCTTTGCGTATGGTATTGGTTACCTCGCCGCCCGCGATGACCGCGCCG
CTGACCTCAAATACCGCCGCAATCAGCAAAGCCTGCGGGATGGTCAGCGTACCCGCACCG
ACGCTGGTGCCGAAAGAATTGGCAACATCGTTGCCGCCGATGTTGAACGCCATAAACACG

CCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 285>:

gnm_285

CGTGGAATCGGCTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTT
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CGGCCTCAAATCAGCACAATTCCTTATCCAAATCCGCCAACAGGTCTTTCAGAGCGTCTC
CGATTTCCTGAAGCGTAACCGGACGGTTGCCGTCCGAACCCGATTCCGCACCTTCTGCAT
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CGCGCACGGTCGTTGTTTTCAGTTACATATTCGGCATTCAAACGCTCCGGCAATACGAAA
TCCAGTTGTAATGTACCGCATTGCCAAGAACGACCCAAGGCATCTCTGACATGATATTCG
ATTTTAGGCCCGTAAAACGCACCCTCGCCCGGCAATTCGCCCCATTCCACGCCGCAGGCA
GTCAATGCCTCGCGCAAACCCTGCTCTGCCTTATCCCACACGTCATCTGAACCTGCGCGT

TTTTCAGGGCGAAGAGAAAGCTTGACGGATACATCATGGAAACCGAACTGTTTGTAGATG
CGAATCAACAATTCATTGAACGCACGAGCCTCGCTGACGATTTGATCTTCGGTACAGAAA
ATATGCGCATCATCCTGCACAAAACCGCGAACCCGCATCAGACCGTGCAGCGCACCGCTC
GGCTCATTGCGGTGGCAAGAACCGAATTCCGCCAAACGCATCGGCAAATCTCGATACGAA
CGCAAACCGTTGTTAAAAATTTGAACATGACCCGGACAGTTCATCGGTTTAACCGCATAT
TCGCGTTTTTCCGAACTGGTTACGAACATATTATCTTTGTAGTTGTCCCAATGGCCGGAT
TTTTCCCAAAAGGTTTTATCCATGATTTGAGGCGTTTTGACCTCTTTATAACCGGCGGCG
TTCAGCTCTTTACGCATATGCTGTTCAATCACTTGCCACAAAGCCCAGCCTTTAGGATGC
CAAAACACCATGCCCGGCGCTTCGTCTTGCAGGTGGAACAGATCCAATTGCTTGCCAAGT
TTGCGGTGGTCGCGCTTTTCGGCTTCTTCGATACGTTGAATATAGGCTTTTAATTCGTCT
TTTGTCGCCCAAGCCGTACCGTATATGCGTTGCAGCATTTCATTATTGCTGTCGCCGCGC
CAGTATGCGCCCGCCAACTTGGTCAGTTTGAAGTTTTTCAGGAAACGGGTATTCGGAACG
TGCGGGCCGCGGCACATATCGACATATTCCTGGTGATGATACATCCCCATCGCTTCCACT
TCGGGCATATCGTCAATCAGGCGCAGTTTGTATTCTTCGCCGCGCTCTTGAAAAAATTTA
ATCGCCTCCGCACGCGGAGTCATGATTTTGACCACATCATAGTCTTGGGCAATCAATTCT
TTCATACGCGCTTCAATGGCGGCAACATCTTCCGGTGTAAACGGTTTTTCCGTGGCGATG
TCGTAATAAAAGCCCTCTTCAATGACGGGGCCGATAACCATTTTTGCATTAGGATAGAGT
TGCTTGACGGCATGCCCGACAAGATGCGCGCAGGAATGGCGGATGATTTCGATGCCTTCC
TGATCTTTCGGAGTAATGATTTGAACAGCAGAATCTTCAACAATCGGGTCGCACGCATCG
ACCAATTTGCCGTTTACCCTGCCTGCCACCGTCGCCTTCGCCAAACCGGCACCGATAGAC
GCAGCAATTTGAGCCACGGTAACGGGGGATTCGTATTGGCGGACTGAGCCGTCCGGCAAG
GTAATATTCAACATCAAACGCTCCGAAAGATTAAAAAATAACGGCATAAATGCCGTTATG
GGAATTTGGTAGGCACGATTGGATTCGAACCAACGACCCCCACCATGTCAAGGTGGTGCT
CTAACCAACTGAGCTACGTGCCTTCAAAGAATTTTTGCATTTTATCGGGTCGTTTTAATT
TTTGCAAGAGGTATGTGCGTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 286>:

gnm_286

GCACTTCAGACGGCATTTTATGCCTTGCCCTCCATGCCGTGATGTTCGATGGCAAAACCG
CTTCGGCGGTAGGCGGTAAAGCGTTCGCGCGCGTCGGCGAGCTCTTCCAAGCTGTTGCCG
ACGATTTCCAAAACGCGCGCGGGCAAGACCGGAGCGGTGTTCCAAAAACCGTCGGACAGG
TTCAAAACGGTCATGCCTTCGGGAATTCGGGGCAGATTGCCGCCGCAgGCAAGCAGGACG
GATGGTTCAGACGGCATGGCTTCTTCCGTTTCCCAAATTTCGTGCGGAATGAAACTCTCG
GCCTCGTATTGCCAAAGCATTTTGTCCAATTCCTGAAGCTGCCCGAACGAATCGGACCAC
ACCAGTATCCTGCCGCCGTCCCGAATCGCACGGGCAATCAGGCGGCAGGTGAAAATCGGA
ACTTGGGCAACGTGCGTGTAAAAGGTGGCTTTCGGCATATTGTTTGAACATTTGGCAGGA
TAATGCCGTCTGAAAGGCTTCAGACGGCATTGTGGGAAAATTAAAGATTCCGCAGATAGT
TCAGCAGCAAGGGAACGGGACGGCCGGTCGCACCTTTTTCCGCACCGGATTTCCACGCCG
TACCCGCGATGTCAAGGTGTGCCCATGGATAGTCTTCGGTAAAGTAGGATAGGAATGTTG
CGGCGGTAATCGTGCCCGCGCCGGGCGTGCCGATGTTTGGAATGTCGGCAAAGTTGGATT
TGAGTTGGTCTTTGTAGGTCTCAAAGAGCGGCAGTTGCCATGCTTTGTCGTCCACGTTGT
AgGAAGCGGCAAGCAGGCTGTCGATCAAATCCTGATTGTTGCCCATCACGCCGCTGACAT
CGTGCCCCAAGGCAACAATACACGCGCCGGTCAGGGTGGCGACGTCGATGACGGCTTTGG
GTTTGAACTGCTCGGCGTAAGTGAGCGCGTCGCACAAAATCAGACGGCCTTCGGCATCGG
TGTTCAACACTTCGATGGTCAGCCCTTTCATACTTTTCACGACATCGCCCCGGTTTGTTTG
CCGCGCCGGAAGGCATATTTTCACAAGTGGCGACGACGGCAATCAGGTTAATCGGCAGTT
GCAGTTTGACGGCGGCGCAGAAGGTGCTGATGACGGTTGCCGCTCCGCACATATCAAACT
TCATTTCGTCCATGTTCAGGCCGGGCTTGAGGGAGATGCCGCCGGTGTCGAAGGTAATGC
CTTTGCCGACCAATACCACAGGCGCGGCTTCTTTGTCGGCTGCACCGAAATAGCTCAGTT
CGACCAAATAGGGGGCTTCCGCGCTGCCTTTGGCGACCGACCAAAACGAACCCATGTTTT
CTTTGATGTAGTCTTTTTCGATGATTTTGGCGTGCGCGCCCAGTTTTTCGGCTTCGGCTT
TGGCGGTGCGCGCTAAAAATTCGGGCGTGCATTCGTTGGGCGCGGCGTTGCCCAAGTCGC
GGCAGAGGCTTTGTCCGTAAACTTGCGCTTCGGCGACGCGCAAGGCTTCTTTGACGGCGG

CTTCGTGCGCGGTATGGAACACGGCAGTTTCAAATTTGGCGGGCTTGGCTTCTTTTTTGT
AGCGGTCGAAACGGTAGGCGGCATTGCCGAACGCAATCGCAAACGCTTCGGCAACGGCTG
CAGCCTGCGCTTCTTCAAAGACGTGAACGTCCACATTGACCGTTTCCTGATTTTGCGCCC
ATTTGGCGGCTTCGGCGGCGGCCTTGTTCAATGCGGCGCGGCCGGTGCTTTTCAGACAGC
ATACGGCAACAGCCTGCAAACCGTTGCCTGTCGGGATTTTTGTGTCGGCAAAATTTTGAC
CTTCTTCAAGCGAAGACAAAAGGGCAAGGACGGTCGGGTTGCTCAGTTGCGATGCTTCGG
TGCAGACAAATAACTGTGCGCCTGCCTGCTGTTCCTGCAAGATTTCGGTTTTTGTGCTAA
ATTCCACGTTTATTCTCCTGATTGAGACGGTTGTCGGTAGTTTTCGGACGGCCTTTCGCT
CAAAAGACCGTCTGAAGACGGCTGGCACGATTGTACCCCATTTGAAGCACCGTCTGAAAC
CTTGCGCGGACAATCCGCCTGCGCCGAACCGCTTACCGCCCCCCTGACCGCGATTCTATG
ATTTATCAAAGAAACCTCATCAAAGAACTCTCTTTTACCGCCGTCGGCATTTTCGTCGTC
CTCTTGGCGGTATTGGTCTCCACGCAGGCAATCAACCTGCTCGGCCGTGCCGCCGACGGG
CGTGTCGCCATCGATGCCGTGTTGGCATTGGTCGGCTTCTGGGTCATCGGTATGACGCCG
CTTTTGCTGGTGTTGACCGCATTTATCAGTACGTTGACCGTGTTGACCCGCTACTGGCGC
GACAGCGAAATGTCGGTCTGGCTATCCTGCGGATTGGCATTGAAACAATGGATACGCCCG
GTGATGCAGTTTGCCGTGCCGTTTGCCGTTTTGGTTGCCGTCATGCAGCTTTGGGTGATA
CCGTGGGCAGAGCTACGCAGCCGCGAATACGCTGAAATCCTGAAGCAGAAGCAGGAATTG
TCTTTGGTGGAGGCAGGCGAGTTCAACAGTTTGGCAAGCGCAACGGCAGGGTTTATTTT
GTCGAAACCTTCGATACCGAATCCGGCATCATGAAAAACCTGTTCCTGCGCGAACAGGAC
AAAAACGGCGGCGACAACATCATCTTCGCCAAAGAAGGTAACTTCTCGCTGAACGACAAC
AAACGCACGCTCGAATTGCGCCACGGCTACCGTTACAGCGGCACGCCCGGACGCGCCGAC
TACAATCAGGTTTCCTTCCAAAAACTCAACCTGATTATCAGCACCACGCCCAAACTCATC
GACCCCGTTTCCCACCGCCGTACCATTCCGACCGCCCAACTGATTGGCAGCAGCAACCCG
CAACATCAGGCGGAATTGATGTGGCGCATCTCGCTGACCGTCAGCGTCCTCCTACTCTGC
CTGCTTGCCGTGCCGCTTTCCTATTTCAACCCGCGCAGCGGACATACCTACAATATCTTG
ATTGCCATCGGTTTGTTTTTAATTTACCAAAACGGGCTGACCCTGCTTTTTGAAGCCGTG
GAAGACGGCAAAATCCATTTTTGGCTCGGACTGCTGCCTATGCACATTATCATGTTTGCC
GTTGCACTCATCCTGTTGCGCGTCCGCAGTATGCCCAGCCAGCCCTTCTGGCAGGCGGTT
GGCAAAAGTCTGACATTGAAAGGCGGAAAATGAACCTGATTTCACGTTACATCATCCGTC
AAATGGCGGTTATGGCGGTTTACGCGCTCCTTGCCTTCCTCGCTTTGTACAGCTTTTTTG
AAATCCTGTACGAAACCGGCAACCTCGGCAAAGGCAGTTACGGCATATGGGAAATGCTGG
GCTACACCGCCCTCAAAATGCCCGCCCGCGCCTACGAACTGATTCCCCTCGCCGTCCTTA
TCGGCGGACTGGTCTCCCTCAGCCAGCTTGCCGCCGGCAGCGAACTGACCGTCATCAAAG
CCAGCGGCATGAGCACCAAAAAGCTGCTGTTGATTCTGTCGCAGTTCGGTTTTATTTTTG
CTATTGCCACCGTCGCGCTCGGCGAATGGGTTGCGCCCACACTGAGCCAAAAAGCCGAAA
ACATCAAAGCCGCCGCCATCAACGGCAAAATCAGCACCGGCAATACCGGCCTTTGGCTGA
AAGAAAAAAACAGCATTATCAATGTGCGCGAAATGTTGCCCGACCATACGCTTTTGGGCA
TCAAAATTTGGGCGCGCAACGATAAAAACGAATTGGCAGAGGCAGTGGAAGCCGATTCCG
CCGTTTTGAACAGCGACGGCAGTTGGCAGTTGAAAAACATCCGCCGCAGCACGCTTGGCG
AAGACAAAGTCGAGGTCTCTATTGCGGCTGAAGAAAACTGGCCGATTTCCGTCAAACGCA
ACCTGATGGACGTATTGCTCGTCAAACCCGACCAAATGTCCGTCGGCGAACTGACCACCT
ACATCCGCCACCTCCAAAACAACAGCCAAAACACCCGAATCTACGCCATCGCATGGTGGC
GCAAATTGGTTTACCCCGCCGCAGCCTGGGTGATGGCGCTCGTCGCCTTTGCCTTTACCC
CGCAAACCACCCGCCACGGCAATATGGGCTTAAAACTCTTCGGCGGCATCTGTCTCGGAT
TGCTGTTCCACCTTGCCGGACGGCTCTTCGGGTTTACCAGCCAACTCTACGGCATCCCGC
CCTTCCTCGCCGGCGCACTACCTACCATAGCCTTCGCCTTGCTCGCCGTTTGGCTGATAC
GCAAACAGGAAAAACGTTGAACCAATGCCGTCTGAACCTCTCTTCAGACGGCATTTGTTT
TCATTGACACATTCCCACAGACAGATAGCCGTTCCCTATTACATTACCTGTCATAACAGT
TCCATTTTTGTTAAAACTAGTCTATGATAGCGGTACAAATATTGTTTACAATATTTAACG
CAAATCATTTGCAACCCGACAAAAGAAAAACAGAAAAAGGAACAAAGAGATGTTAGAAGC
CTATCGTAAAGCCGCCGCCGAGCGCGCCGCCCTCGGCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 287>:

gnm_287

CGGCAGTGGACAAGTGACTGTTCAGTCCTATTTCCAGAACGATGGCTCAGGTGCTTACCG
TATCGATGAGATTCATTTCGATAACGGCAAAGTACTGGATGTTGCCACTGTCAAAGAACT
GGTACAGCAATCCACCGACGGTTCGGACAGATTGTATGCCTACCAATCCGGAAATACCTT
AAATGGCGGATTGGGCGATGACTATCTGTACGGTGCCGACGGGGATGACCTGCTGAATGG
TGATGCAGGCAACGACAGTATCTACAGTGGCAATGGCAATGATACGCTCGATGGAGGAGA
AGGCAACGACGCCCTGTACGGCTATAATGGTAACGATGCACTGAATGGTGGCGAAGGCAA
TGATCATTTGAACGGCGAAGACGGTAACGACACTCTAATCGGCGGTGCAGGCAATGATTA
CTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCAAAGGCTTCGGTCAGGATGC
GGTCTATAATTACGACTACGCTACCGGACGCAAAGACATCATCCGCTTTACCGACGGTAT
TACAGCCGATATGCTGACTTTTACCCGAGAGGGCAACCATCTTCTTATCAAGGCAAAAGA
CGGCAGTGGACAAGTGACTGTTCAGTCCTATTTCCAGAACGATGGCTCAGGTGCTTACCG
TATCGATGAGATTCATTTCGATAACGGCAAAGTACTGGATGTTGCCACTGTCAAAGAACT
GGTACAGCAATCCACCGACGGTTCGGACAGATTGTATGCCTACCAATCCGGAAATACCTT
AAATGGCGGATTGGGCGATGACTATCTGTACGGTGCCGACGGGGATGACCTGCTGAATGG
TGATGCAGGCAACGACAGTATCTACAGTGGCAATGGCAATGATACGCTCGATGGAGGAGA
AGGCAACGACGCCCTGTACGGCTATAATGGTAACGATGCACTGAATGGTGGCGAAGGCAA
TGATCATTTGAACGGCGAAGACGGTAACGACACTCTGATCGGCGGTGCAGGCAATGATTA
CTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCGAAGGCTTCGGTCAGGATAC
GGTCTATAATTACCATGTGGATAAAAACTCTGACACTATGCACTTTAAAGGATTTAAAGC
AGCAGATGTTCATTTTATCCGTTCCGGAAGTGATTTGGTGCTTAGCGCTTCTGAACAAGA
CAACGTACGTATTTCCGGATTTTTCTATGGTGAAAACCATCGTGTAGATACATTTGTCTT
TGATGATGCAGCTATCAGTAATCCAGATTTTGCCAAGTATATTAATGCTGGCAATAATTT
GGTACAGTCTATGTCTGTGTTCGGTTCTAATACTGCTGCGACAGGAGGAAATGTGGATGC
CAATATACAATCCGTACAGCAGCCGTTATTGGTAACGCCATCTGCATAAGGAGCCTAATT
ACATTCATGGCTTAAACTGAAAAACAGCAATCAAGTTTATTTTGATTGCTGTTTTTCTTA
ATATTGGGATAAGGGTCGTATTTTAATTAACCTTAATCGGTGCACTTCTAGCAATATAGT
GGATTCACAAAAACCAGTACAGCGTTGCCTCGCCTTACCGTACTATCTGTACTGTCTGCG
GCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATAATTTTCAGACGGCCTTTTGCC
TTTTCAAATTCAAACCAATCAAACGGTTTTATTGCTTCATCGCGTTGGTCAAGGCTTTGA
TGTTGTGGCGGTACATTCCGATGTAGGTGTCTGCGGGCGCGTTGCCGAGTGCGTCGGAAT
ACAGTTTGCCGCTGACGTTGACACCGGTTTCTTTGGCGATACGGTCAACCATACGGGTGT
CCTTGATGTTTTCGGTAAAGACGGCTTTGATGCCTTCGCGTTTGATTTGTCGGATGATGG
CGGCGACTTGTTTGGCCGAAGGCTCGGCTTCGCTGCTCACGCCTTGCGGGGCGATGAATT
CGATATGGTAACGTTTGCCCATATAGGAAAAGGCATCGTGCCCGGTCAGGACTTTGCGTT
TGGCAGCAGGGACGGCATTAAATGCGGCTTGTGCGTCGCTGTGCAGTTTTTTGAGCTGCA
TTTGGTAGTTGCCCAAGCGTTGTTGATAATAAACTTTGCCTTCGGGATCGGCCTTTATCA
GGGCTTTGGCAACGTTTTGGGCATAGGCGGACATAAGGACGGGGTCGTTCCAGACGTGCG
GGTCATATTCGCCGTGGTCATGGTGGTGTCCTTCGTGGTCATGATCGTGGTCGTGATGGT
GTCCGCCTTCTTCTTCGGCTTTGAGGGGTTGGATGCCTTTGGTCGCTTCGGTATAGGATA
CTTTGCTTTGTTTGACGGCGCGTTGCACATCGGCAGCTTCAAGTCCTAAGCCGTTGAGCA
GGACGAGTTTTGCACTGCGGATTTTTTTAATGTCGCCACTGGTCATATGATAGGCGTGCG
TATCTTGGTTGGCTCCGACCAAACTTTGTATGGATACGCGCTCTCCGCCGATTTGTTTGG
CTACGTCGCCTAAAATGCTGAAGCTGGTTACAACCGGCAGGGGGGCGGCAGTTGCGGAGG
CGGTCAGCAATGCGGCAATAAGGGTGAGTTTGAGGTGTTTCATAACTGTTCTCCTGTGAT
ATAACGTAACATCTGTTATGGTAAAACAAGCCGCCTGTTTGTTCAAGCGGCTTGCGGGGT
CAGGTGGTGTGGCGGTGGTGGCTTTTGAGCCATTTGGCCAGAATGCCGCCTTCTTTGCCG
AGTATGACGGCAAAGACATATCGGACGCTGCACCAGCGGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 288>:

GNMCS11F gnm_288

CCGGCACCACGCCTTACGACACCGCCCACCTCGAAGTGATGTTCGACCAATGTTTCAGCC

AGATTGACTATTTGCGCCGCAAAGGGACGGGCGCCGGCTCCGGTTCGTCGGTCAAAGTCG
CCCACCTGCTCGAACGGCTCCGGCAGACCGTAGACCGTCTGAAGCTGCTCACCGACATCC
AAACCGGCGCCGGCAACAGCAACCGCCTGACCATCGCGCTGATGAACTCCCTCATCTACG
CGGCGGTCGAACAATACAGCACCCGCCACCTGCGCCGCGCAGCATCCGTATGCTCGCCCG
CAGCATTACCGAAAACAAAAGCCACCACGGCGAACACTACATCACCCGCAACCGCAAAGA
ATATTTCAAAATGTTCTACTCGGCGGCAGGCGGCGGCATCATCATCGCCCTAATGGCGCT
GCTCAAAATCCGCATCGGCTCACTCGGCCTCAGCCCCTTCCTCACTTCCTTGTCGGCTGG
GTTCAACTACGGCATCGGCTTTATGATCATCCATATGCTGCACTGCACCGTCGCCACCAA
GCAGCCCGCGATGACTGCCGCCAGCAGGCAATCGGAGTAAAAAATGAACCTTGATTTAAC
CGCGCAAAAAGTCCGTCTTTCTTGGAAGGATATTCTGTGGGGTATGGAATAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 289>:

GNMCS48F gnm_289

TGCTGGCAGCAAAGAAATCTGCACGATTGTCAATGGTGTTGAAATACTTGTCAAATCTTG
TAGATGCCCCTTGTGAGTTATATAAATAGCCAAAAACTTCTTTGGCAACCCGTGATACAT
CCGAAGGGATATACTTCCACGCAGCAGGCATGGCAATATATTTAATAGATATATTAATGC
CGTTTCTGCAACCATCGCGCAATGGGTTCCTAGAATAGACTTGTTGAAGTTCCGTATCAA
TTACTTTGCGAAATTGTTCATCCGTTTTGATGGCATTTACTTTTTCCATCGTAGTAGTGC
AAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 290>:

gnm_290

GTCGACTCTAGAGGATCCCCTGGGATTGAGTTTAGACCAGACTGCTCATTATACTTTATG
CAGGTTTGTAAATATTTGGCAAACTTCATAAATTATGCCTTGTAATCAAGTCATCAAATA
AGCATGTAAATAACTACTATAGAAATTAAATTACAAAAATATTATGTATTCTTTTGTGTA
CAAAGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGAGTGAAATTGT
TATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGT
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCG
GGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTG
CGTATTGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 291>:

GNMCS78F gnm_291

CCCGCGCAGGCGGCAATCTATCGGAAATGACTGAAACCTCGAGATTCTAGATTCCCACTT
TCGTGGGAATGACGGTTCAGTTGCGTTCCAACAACACCGCAATCTCGAAATCCGTCATTC
CCGCGCAGGCGGAAATCCAGACCTCCGACGCGGCGGGAATCTATCGGAAATGACTGAAAC
CTCGAGATTCTAGATTCCCACTTTCGTGGGAATGACGGTTCAGTTGCGTTCCAACAACAC
CGCAATCTCGAAATCCGTCATTCCCACACAGGCGGGAATCTAGACTCCTGACGCGGCGGG
AATCTATCGGAAATGACTGAAACCCCGAGATTCTAGATTCCCACTTTCGTGGGAATGACG
GTTCAGTTGCGTTCCGACAACACCGTAATCTCGAAATCCGTCATTTGCGTACAGGCGGGA
ATCCAGACCTCTGACGCGGCGGGACTCTATTGGAAATGACTGAAACCGCGAGATTCTAGA
TTCCCGGTTTTGTGGGAATGGCGGCTCACTTGCATTCCGACAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 292>:

GNMCV37R gnm_292

TCGGCATTTTTTTATCCGTTTTGGGGGTAACTTGTTTGGAAAGCTGCAACTTCATAAATA
CAGGATTACATTTAAGTTTTGGGTAACCTTTTTAAAAAAATGCGTGATGACTTTTGCATT
TTTAAGGCGTTTTTTGGGGTAATTCGTGAAAAGTTACCCCAAAAGTTACCCCATAAATGG
CGAAAACTCAAGCATACGCCAGCATCCTGCAACACAAAAAAGCCTTGAAACTGTTGAAGT
TCAAGGCTTTTTTGTGTTGCAGGATCTGCTGTCAATAGGGTATGGTGGAGGCGGGGGGTA
TCGAAACCCCGTCCGATATTCCTCTACAAAGCGTTCTACATACTTAGTTGTGTCTATATG
AGAATCTTATTTCCATCATGCCGACCAACAGGCTTTATGGATACCAGTTACCTTAAGTCT
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 293>:

GNMCV44F gnm_293

GACGGCCAGTTCGCGAAAACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCT
AGAGGATCCCGGCGATGGCTTGTGCGAGTTGGGGCAGGATGGGGGCGTTGCGGTCGGGGT
TTTGGCTTAAAAATTGGGTGATGAATTCGGGCACTGGCACGCAGATGCGGCGGATTTGCT
TGGGCAGTGCTTTGATTTGCAACTGGATTTTTTCGCGTATCATGCCGGGCACCAGCCATT
CGTGCGACGGCGCGTGCAGGCGGTTGAGGACGGTCAGCGGCACGGTCATGGTCACGCCGT
CTAGCGGATGGTGCGGCTCGAAGCGGTAGGAAAGTTTGAATTTGCCGTCTGCGGTTTGCC
AGAATTTGGGGAACTGTTCTTCGGTAATGTGTGCGGCGGCGTGTTGCATCAGATCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 294>:

gnm_294

GCCCCACCAACCTGTGAGTCTCCTTGCCTGCTGGTGTGTGTGGCCGCCCACTCACCCATG
CATCATGACCCGTGGGATCTCAGTAGCCAGCGTGCACTGATTCTGCGCACTTATCAGTGC
CTTCGTACACTTTGCCCACTTCCACTTCGGCAGTAATCTGCTCGATGCGTTTTTTCGCCG
CATCGCCGGCTTCTTGAGTGGTTGCGGCAATGGTAATCGTACCGTCTTCGGCAATATTGA
TTTCCGTACCGGTTTCAGCGGTAATCGAACGGATGGTTTCACCGCCCTTACCGATAACTT
CGCGGATTTTGTCTTGGTTGATTTTCATCGTGAACAAGCGTGGCGCGTGTGCGGACAGCT
CTTGCGGGCCCGCAACGGCGGCTTTCATCTGATCCAAGATGTGCAGACGCGCTTCTTTGG
CCTGTGCCAAAGCGATTTGCATAATTTCTTTGGTAATGCCTTGGATTTTGATGTCCATTT
GCAGCGCGGTAACGCCTTCGGTCGTACCGGCCACTTTAAAGTCCATATCGCCCAAGTGGT
CTTCGTCGCCCAAAATGTCGGTCAGGACGGCAAATTTGTTGCCTTCCAGAATCAGACCCA
TCGCGATACCGGCAACGTGTGCTTTCAAAGGCACGCCGGCAGACAGCAGGCTCAGGCAGC
CGCCGCAGACGGAAGCCATAGAGGAAGAGCCGTTGGATTCGGTAATTTCGGAGACCACGC
GCATGGTGTAGCTGAAATCTTCAGGTTTCGGCAATACGGCCAACAATGCACGTTTAGCCA
AACGGCCGTGACCGATTTCACGGCGTTTCGGTGCGCCCATGCGGCCCACTTCGCCGGTAG
AGTACGGCGGAAAGTTGTAGTGCAGCATAAAGCGGTCGGTGTATTCGCCGGACAGCGCGT
CGATGATTTGCTCGTCGCGCGAAGTACCCAAAGTTGCAACGGCCAAAGCTTGGGTTTCGC
CACGGGTAAACAATGCAGAACCGTGCGTGCGCGGCAATACGCTGGTTTGGATGTTCAGCG
GACGGACGGTGCGGGTGTCGCGGCCGTCGATGCGCGGTTGGCCATCCAAAATTTGGCTGC
GGACGACATCGGCTTCCAAGTGTTTGAAAATGCCTTTGATTTCGTTGGCTGCCAAAGTGT
CGGTTTCTTCGGTAATCAAGGCTTCTTTTACCGCACTCCAAGCTTCGTCCAATTTGGCAG
AACGCGCTTGTTTTTGACGGATTTTGAACGCTTCTTTAATGGTTTCGCCGGCAATCCCGC
GGACTTTGGCAACCAGTTCCTCATTGGTTTCAGGTGCTTTCCAATCCCAAAGTTCCGGAT
TGACTTCGTCGGCAAATTCATTGATTGCATTGATGGCAACCTGCATTTGATCGTGGCCGT
AAACCACCGCGCCCAGCATCACGTCTTCGGGCAGGATTTTGGCTTCGGATTCCACCATCA
ACACGGCTTTTGAAGTACCGGCGACCACCAAGTCCAATTGCGATTTCGCCAATTCGGCTT
TAGTCGGATTCAAAACGTACACGCCGTTTACATAACCGACGCGTGCCGCGCCGATCGGGC
CGGCAAACGGTACGCCGCTCAACACCAGCGCGGCAGATGCACCCAACATTGCAGGAATAT

CAGAATCGATTTCAGGATCGACGGACACGACCATCGCTACGATTTGGATGTCGTGGTAGA
AACCTTCAGGGAACAGCGGACGAATCGGACGGTCGATCAGACGGCTGGTCAGGATTTCTT
TTTCGCTTTGTTTGCCTTCGCGTTTGAAGAAACCGCCGGGAATTTTGCCTGCGGCGTAAG
TGCGTTCCAAATAATCGACGGTCAGGGGGAAGAAGTCTTGACCTTCTTTCACTTCTTTGT
TGGTGGTAACGGCAACCAAAACAACGGTGTCGCCCATAGAGACTTTAACGGCAGCGGCGG
CTTGGCGGGCAATTTCGCCGGTTTCCAAAGTAACGGTCTGATTACCGTATTGGAAGGTCT
TAACGTGTTTGTCGAACATCATTGTTCCTTTCAAAATACCGCACTGCTAAAACACTAATA
ATGCACACTAAAATCCGAATGTGCATAGTTAGGGTTTCAGACCGTGCGGCAGGTTATAAA
CAAGCTTTCAGACGGCATTTCGGACGCTGAAAGCAATTGCGGATTATAAAGGCAACCATC
CTTAAAATCCAGTATTGATACAATAAAAAGGCCGTCTGAACCATATTTCTTTCAGACGGC
CTTCAAACTTAAAAATCAATCCTGAGTCAGCAAAGTCAATGCTTCCCGATACTTCTCGAC
AGTTTTCTGAATCACATCGGCAGGCACTTTCGGCGCAGGGGCTTTTTTGTTCCAACCGCT
TTGTTCCAGCCAGTCGCGGACGAATTGTTTGTCAAAAGACGGCGGATTGGTGCCGACTTT
GTATTGGTCGGCAGGCCAAAAACGGCTCGAATCGGGAGTCAATACCTCATCCATCAGCGT
CAGCGTACCGTTTTCATCCAAACCGAATTCAAATTTGGTATCGCAAATAATAATACCGCG
CGATTTGGCATATTCCGCCGCTTCGGTGTAAAGCCGAACCGCCTTGGCGCGCACTTCTTC
CGCCAATTCTTTGCCGATAATGCGTCCGCATTCTTCAAAGCTGATGTTTTCATCGTGATC
GCCGACTGCGGCTTTGGTTGAGGGCGTAAAAATCACTTCAGGCAGTTGTTGCGCTTCCTG
CATACCTTCAGGCAGTTGAATACCGCAAACCGAGCCGGTTTTTTGATAATCTTTCCAACC
GCTGCCTGCCAGATAACCACGCACAATCGCCTCTACTTTCACCGGAGTGAGCTTTTTAGC
CACGACGGCGCGTTTCTCTAAAGCTTTGGCTTCGTTTTCAGGCAAAACATCGTAAACCGT
TTGACCGGTAAAGTGGTTGGGCATAATATGCGCCAGTTTTTTAAACCAAAAATTGGAAAT
CTGCGTCAGAATCTCCCCTTTGCTCGGAATCGGGTCGTCCAAAATCACATCAAACGCGGA
CAGGCGGTCGGAAGCGACCATCAGCATACGTTTATCGTCGATTTCATATAAATCGCGCAC
TTTTCCAAAATAGATCTTTACCAAACCAATCTCACTCATTTCGCCCCCCCCTGAAAATAT
CTTGAAAATACCGACCCGACACCCGACAGGTTTGAATCACAAACCGATATTCTAGCCGAA
GTCGGCGCAAAACAATACCCATGGCACAAAAAGCCAACCCGTCAACCGTCGGCAAAATTT
TGGCACTATAATACCGACAGCAAGTCCTACAATACACTTTTACCAAAGGAAATACCTCAT
GAGAATCCTATTGACAGGCTCGAAAAGCCAACTGGCACGCTGCCTGCGCGACCGTCTTCC
GGAAGACTGGGAAACCATTGCGACGGATTCCGCATCCCTAGACATTACCGATGCCGATGC
CGTCTGCAACATGGTCAAAAGTTTCCAACCCGACGCCATTGTCAACACGGCTGCCTATAC
TGCCGTCGACAAGGCGGAAGGCGATGCGGCAGCGGCATTTGCCGTCAATGCTTCCGCCGT
TTACAACCTTGCCTTGGCAGCACATCGCGCCCATGCCCGATTCATCCACATCTCAACCGA
CTATGTCTTTGACGGTAAAGGGAAAAGACCCTATCAGGAAAGCGACTTTACCAATCCTTC
CAATGTATACGGACAATCCAAAACCGCAGGCGAGCTGCTCGCACTGTCTGCCAATCCCGA
CAGCCTTATCCTGCGGACTTCTTGGCTGTTTAGCGAATACGGGGACAACTTTATCCGCAC
GATGCTGAACCTTGCGCGGGAACGTTCCCCGCTGTCCGCCGTCCACAACCAAATCGGCTG
CCCGACCTATGCCGGCGACTTGTCCGCCACCATCATCCGCCTGTTGCAGCACTCCAATCC
CGTTCGCGGCATTTACCACTACGCCGGCAGCAAATCCGTATCCTGGTACGAATTTGCCCA
ACATATTTTCCAAGCGGCATCGCAACAGCAGACATCCTTCCCCGTTCCCGAATTGACTGC
CGTTTCAGACAAGGAATATCCGACCGCCGCCCCCAGGCCCGCATACAGCATTTTGGACTG
CCGCAAAATCGAAAACGACTTCGGCATCAAAcCGTCAGACTGGCAAAAAGCCCtTGCACA
GGTCGTTTCCAAGCTGCTCTGATGCCGCCCGCCCCTCTGTTTCCGCCGTCAAGCACCGCC
TTGGCGGTTTTCTTATATAGTGGATTAACAAAAACCAGTACGGCGTTGCCTCGCCTTGCC
GTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATA
AAATCTACCGATTACACAAACACATATCATCTTTACACAATCATGCTTCCATCAACAGTA
AAACATGATATGATTGCCAACAATAACATCTCACAATAAATTTTCTAATTTTTATTGAAA
AAATCAATAAATAAGAATCCTCCCAACCGACAAATAAAATAAAGAAAGGGTTAATATGCA
ACATCGAAGAAGACTAGCAATTTACCAAGCATCCAAACGTGCTTCCTTTACCGGCAGGTC
ATCCGCCCCGCAAAAACGTAAAGAACGTTGATTTGAAAAAAATGCCGCCTGAAGTCCTGC
TTCAGACGGCATTTTTTTACCGTTCGAGAAACTGTTTCAACCTGTCCTCATCCAAAAACC
AGTGACAGATTTCCTCATCTCCCGCCAACAAAACGGGAACCAGCTCATTGTATTTTTCTT
CCAAAACAGGATTTTCATCCACATCGACCACTTCCAGCCCGAACCCGTATTCATCCTGAA
AAGGTTTGAGTTCGTCGCGCATTTTGTGGCACAAGCTGCAATATTCACGAAACATCAAGG
TCAATTTCATCCGCGTTTCCTTATCTGTCAATTTGCACACGCCAAAGCCTTAGACGCAGC
AGAATCATGGTCTATTTGGGAAAAAACAATGTTTTCGAGGAAGATGATACTCAAGTCCTG
CCAAAAACAGTAAAAATGCCGTCTGAACAGTTCAGACGGCATTTCGAAAACCGTTTTACG

CTTGAACGTTGATACCCGCCGTAACCGTCGGTTGCGCATTGTGCGCCGTCAGAAACGAAG
CGGCAAGCTCCCCGCAGCAGCCGCAGCAGCTCGCTACGCCCAATTGCGACTGCAAATCGC
CCATTGTGGTCGCGCCGGCGGCGATGGTTTCCTTGATTTGATGGTCGGTAACGGCATTGC
AGATGCAGACAAACATTTTGTGCTCCGTGTGTTCTCAAACTATCGTACCGATAGCGGCTT
TTATTATCGTATGCGAATATAAATAAAAACGGTTCGCATTGCAAGGTCGGTATACACGGT
TTGTCTTGGTAATTTTTATCAAGTTTGCATTTTCGATTGATTTCTTATTAAACCAAAGT
AGAAGCCTCAGTTTCGGGAATGGTGTTCCTTCACTACACCCTGCAACCATACGTTGGCAA
CATGGGTATAAATCTGCGTCGTATTCAAATCGGCATGTCCCAACATATCCTGAACCACGC
GCAAATCCAAGCCGTGCCGCACCAGATGCGTGGCAAAGGCGTGGCGCAGGCTGTGCGGGC
TGATGTGCCCGATGCCTGCCTGACTTGCATATTCTTTGACAATCATCCATGCCAACTGAC
GGGAAATGCCCGTCTTTTTCTGACTGACAAACAATGCGTCGCAATTCCTGCCTTTCAGCA
GAAGTGGGCGTGCCTCCGTATAATAGCGTTCCACCCAATACGCCGACTCCTGCCCCATCG
GGACCATCCTCTGCTTATCACCCTTTCCCAGCGCGGTAATACAGCCCCTGTCCAAATCCA
CATTGCCGAAGTTCAGCCCGACCGCCTCGCTGACGCGCAAGCCGGTCGCGTACATCAATT
CGAGCAAAGCCTTGTCCCGCAAACCGTGCGGCGTGTCGGTATCCGGGGCGGCAAGCAGTC
GGGAAATCTGCTGCTCGGTGATCAGGGTCGGAATATTCTTGTCGATTTTGGGCGGTTTCA
GCAAACGGGTGGATTGTCCGTCCTTATGCCTTCACGCTCCATCCATATATACAGGCGTT
TGCATGCCGATAATGCGCGCGCCTGCGAACTCCGTTGCTCTCCGTCAACATAAACCGCCG
CCGCCAAATCCGCTTCGTCCGCATCCTTCAGCATTCTGCCCGATTGGGACAGGCGGCGGG
CGATTTTTTCCAAATCGCGCCGGTAACCGTTTAAAGTATTCTGACTGAGCCGCCTGTCCA
ACCACAGCGTTTCAAGCAGCCTGTCGATCAAACCTTCTTCCATACCGTTCCAAACAAATG
CCGTCTGAATCTTCTTCAGACGGCATGGTTCACATTATCGGGAAAGCGTTTCCAATACTT
CCTGCGCGTGACCCGCCACTTTGACTTTCCGCCATTCATGGGCGATTTCTCCATCCTTAT
TCAAGACGAACGTACTGCGCTCGATACCTAACGACTCTTTCCCGTACAGTTTCTTCAATT
TGATGACATCAAACAGGCGGCACACTGTTTCATCCTTGTCGCTCAACAGCTCGAACCGGA
AACCCTGCTTGGCGCAAAAAATTCTGATGCGCCTTTACGCCGTCGCGGGAAATACCGACCA
CGGTATAACCCAATGCCTCAAACTGTTCCAAACGCGCATTGAAATCCAAGCCTTCCGTCG
TACAGCCCAGCGTACTGTCTTTCGGATAAAAATACACGACCAAAGGCAGATGTTCTGCCG
AATGAAAATCCGCACCGCTGCTCGAAGGCAGGGTAAATTCATATTTCACATCCATAGTCC
TACTCCCGATATTCCCATTATTCAAAACGGCACGCAGACGCACCGCCGCAATTGCCAAAC
CAACCCCGATTCTACCGCCCCAAAGGACAAGGATTCAACCGCCGGAAACATCCAAACCGA
CACACGACGGCATGAAAAATATCCATGTCAAACCACAAAATATGTTCCGATTTAAAAACA
GAATGTTATAAAACCCAATCCCCAAAACACAACAAGACCGCCCGCCTACGGGCAGTCTCC
TGTCAGACGACATACTTTACAGATGGCTGTTTTTCAACAAAATAACGCCAATACTCAAA
AATATGGAATCAAAAATGTCCATCCATACTCTGAAACGCCTGCCCTCATCGCTGCTGCTC
GGTCTCTGCCTTTCCCTGCCGTCAGCCCACCTTTTTGCCGACAACGACATTTTAGGGCAA
TTTTTAGAACAGAACATGCTTACCTCCTCCGATCCGATAGAAATATTCGCCGAAAGCACG
ATACACCCCACCAACACCCAAGCCATTACAGGCGGTCTGATTCTCTCCTCACAGTCTGCC
CTGGTCGTCAACAACAAAACCGGACAGATACTGTATCAGAAAAACGCCGACAGGATTATG
CCCATCGCCTCCATTTCCAAACTGATGAGCGCGATGGTCGTTTTGGATGCAAACTTGGAC
ATGAACGAAACCGTTACCATTACGCCCGACGAAATCGACCGCATCAAAGGGACCGGCAGC
CGTCTTGCCATAGGTACGGCACTTACACGCAAAAAACTGCTGCACCTGAGCCTGATGAGC
AGCGAAAACCGCGCCACCCATGCATTGGGCAGAACCTACCCCGGCGGCATGGGCGCATTT
GTCGCCGCCATGAACCGCAAAGCCCAAAGCCTCGGTATGTACGGCAGCCGCTTTTACGAA
CCGACCGGACTCAACTTCCAAAACGTTTCTACCGCCAAAGACCTGAGCCTTATGGTCAAC
GCCGCCGCCCAATATCCGCAAATCCGCACCAACTCGACTTCCAACTACGCCTCGGTACAG
ACCAAAAAACGGGCAGCAGAACTACAAAAACTCCAATGCCCTGGTCAGAGAAGGCATGTGG
AACATCGAATTGCAGAAAACCGGCTACATACGCGAAGCAGGCAGGTCTATGGTTGTCAAA
GCCAACATTCAAAACCAACCCGTTACCATCGTATTGCTGAACTCGCCCACATCCGCCACA
CGCGTCAACGACGCCCGCAAAATCGAATCGTGGATGCTGCAGCAACGCTCCTGACATACA
AATGCCCGGCGGAAAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 295>:

GNMCW06F gnm_295

CGTTTCTTCCAGTGCAGCTATTGATTTAGTTATTAATCGTTCACTTCCGGATATGGCGGA
TGGTTATTGGGCATTAGGTTTGGGGATAGAAGCCGAACGTATCCACAATGAGCAAGCAGT
AAATAATCCGAACGGTAGCGAAAGGGATAATAGAAAGCAGTTAATATCTGCTTTAGATAA
AGGATTTGATGGATCTTTTAAAGAGAAGCATTTTACTTTTTTACAATCTGTGATGATGGA
TGTAACAAAGTTAGGTGTTGAATATACAATAGATGGTTGGCAAAAAATTGGAGGTTGGGG
TAATGGGATAATCAATGATTTATATAAAAGTGTTGTAAAAAGAGAGTGGACTGGAATATT
TGAGATCGTTAATAATAACATCAAGCAAGGAAATGAAGCTTTAAAAATGAAATCAATAGC
TGGTTCTGGATATGAAAGCTGCTGGGCAAGGAATTTGGAGATGACTTAAATACACCGTGG
AATAATCTCACTCAGGCTGCCGAAATAATCTATAATGACATAGTAGACCATACTAGTCAG
GAATAGAAAAAGGTGTCAAAGCCATTAAAGAATTGTCnGAAAAAATGAAAAATGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 296>:

GNMCW14F gnm_296

CCGATCCGACCACGCCCCCGCCGATTCCTTCAAACGGTTTCCCGCGTTCTTCCCAATTAT
CGTACATTAGGTTCTGCTACGGTTTTCCGCCCAATGTGGCAACTTGGCGCCCTGTCCGAA
TGTTGCTGCGCGCTTTGCTGAACTTCCTGCCCTTGGCTTTCTTCTTTGTATGGGTTAAAC
GGCAAGCCGTTTTTTACATAGTCCTTGGCACATCAACTCCGTCACTTCTTTCAATGCCGT
CCCTTGATGCGAATAGCAGGGCGCATCCGGTTCTTCCGCCTTCTATACAGCCTGCTATAT
ATTCAAAGGTTCTTACCTGCCTTACACCGTTATAAATCGGCTTGCTTCGGGTTTTTCGGA
CAATGTCGGAACAAACATATCTGCGGTAAGGTTGCCGTTATTTACCGGGCTCGCCTTCTG
TTTTATCCGGAAGTACTGCCTGCTGTTCTGTTGCCGCCGATTCTTGTGCTGGCGGGTTCT
TCCGTTTTTTTCCGTAACGGCTCAACATTTTATAGGACAGGCCGACAAACACGGGAATCA
GCAATAACTATTACGGCAGAGTGTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 297>:

GNMCX02F gnm_297

GGCCAGTGCCAACAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTAGAGGATCCCCGGC
GACCATTTGGGTTTTGAATAAAGGCGGTGCGATTTTGGTGGAGATGGACAGCGCAATCGG
GGAAATCATCAGTTCGCCTATCGTGATGGCGAGGACGATCAGTGCGAAAAACGGAAATAG
GAATCGGGGAACCGGAGGAAATAAAGGGGACGAATCCCAAAAACGACGCGCCGGTAACAA
ATACCGCCATAGCGAATTTCAGCGGGGTTTTGGGCTGTTTGCGCCCCATTTTTGTCCACA
TTGCCGCCATCAGTCCGGAAAACAGGATGACCCACAGGCTTTGCATAGAATCTTTCCAAG
CGACGGGCACGGTAAACGAACCGATGGTGCGGTTGACGGTTTCGTCGAAATAGACGGTTG
CCACGGTGTAAATCTGAAACCAGACGGCCCAAAACATACAGATGGTCAGGAAAAGCGGGA
TGTAGGCGATGATGTGCCGTTTGTTGTCGGAACTGACGCGGGGGTTGGTCAGCAGGCGGG
CGAAATAGGCGATGACGGCAAGGATGACGGTAGATAATAGGATGCCGGAGAAATTGTCGA
GGTTGACAAGCCCGGTTTTGATGGCGGTTGCAAGTGCGGCGATGAGGGCGATGCCGACGG
CGGCCGCAGTTTTGCCCTGTCCTTTTGAAAGCGGATGGGGGACGGTGGGGTGGGGCAAGT
TTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 298>:

gnm_298

CCTTCCTCGGCTTCCTCAAAGGCGTAGATTTCATGTGGACGGTCAAACATATCCGACACC
AGCAACCCCGTCCGTCCGAACGCAAGCGCAAAGGCATCATGCACCGCCAACGCAAACGGC

AGCGTCAAAAACACCAGTCCCGCAAACAGAGCCGCATAAGGATATTTCTCGTTCACAAAC
ATCGCCGTCCCCCTCTTCCGAAGCAGACCGCATTATATAGCGGATTAACAAAAATCAGGA
CAAGGCGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTGAG
CACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTGTTA
ATCCACTATACCGCGCACTGCCTTGCCGCCCGCCCGAAAAGTTGCACAAACAACCGTTCA
TATATATCATGACGAAAAAACGCCGGTGTAGCTCAGTCGGTAGAGCAGCGCATTCGTAAC
GCGAAGGTCGGGGGTTCGATTCCCTTCTCCGGCACCAATACCAAGCACAGACCCTCCCTT
CCTCGGGAAGCCTGTGCTTTTTCACATTTCCGCTTCAGACGGCACAACCGATATGAACAC
CTCGCAACGCAACCGCCTCGTCAGCCGCTGGCTCAACTCCTACGAACGCTACCGCTACCG
CCGCCTCATCCACGCcGTCCGGCTCGGCGGGGCCGTCCTGTTCGCCACCGCCTCCGCCCG
GCTGCTCCACCTCCAACACGGCGAGTGGATAGGGATGACCGTCTTCCTGCGACTTGGCAT
GCTCCAATTGCAAGGGGCGATTTACTCCAAGGCGGCGGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 299>:

gnm_299

ACTTGCATGCCTGCAGGTCGACTCTAGAGGATCCCGTTACAAAAGATCATTAAAAAAATC
TTTCAGGAAAATGAAAAAGAGATCCTGAAAAACATTGATAGAATTGAACGGATTCAAAAG
TTAATTATTGGTCAAGTTATGCATAAGACCAATAATCGAGCAAACCCCCAACAAGTTTTT
ATAATTGTTGAAAATATGCTTCATGAAGTTCGGGAAAGAGATAGCTAAAAAAAATCAAAT
TATTTATCGCTATATAATCCTTAAAATTCAAAGCTTTGAATGACCTGCTAACACCCGTAT
CTTCTCAGAACGCCAACTAGAAATCCGTTTCAACTCCTCGGGTACCGAGCTCGAATTCGT
AATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA
TACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT
TAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATT
AATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCT
CGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAA
AGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAA
AAGGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 300>:

GNMCY27F gnm_300

CCAGTTTCGATCTTGATTCTGTCGATACCGAAGCCCCGCGTCCCGGCCAAAATATCAAGA
TGTTTTTTCCGAAAAACCGCAAGCCCGGGTACGAGCTCGAATTCGTAATCATGGTCATAG
CTGTTTCCTGAGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGC
ATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC
TCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAA
CGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 301>:

gnm_301

GGATGCGGATGCGCTGAACATATTATCAACCGATGCCGAAACCCGAAATCTGGCGCGCGG
GTGTAAAAACCTGATTTTAACGCCACACCCCGCCGAAGCCGCGCGCCTGCTTGGAACGAC
GGTTGCGCAGGTTCAGGCGGATCGGACGGCGGCAGTGAGGAAGATAGGGGCAATTTTCGG
CGCAACCGTGGTTTTAAAGGGGCACAAAACATTGGTTGCCTCACCCGATACGGAAATCTA
TGTCAACGAAAGCGGCAACGCGGGATTGGCAACGGCGGGCAGTGGCGACGTATTGGGCGG
CATCATCGGCAGTCTGCTCGCACAGGGCGTGCCGGTTTTTGAAGCCGCCTGCGCGGGCGC

GTGGCTGCACGGCGCGGCGGCGGATGTCATAAAAGAATCGGCAGGCATTGCGGCAGGGCT
GTTGGCAGGGGAAATCGCTCCGGCGGCAAGGTGGCTGCGCAACCGGATAACTAAAAGTAT
GTAAGAAGATATAGTGGATTAACAAAAACCAGTACATCGTTGCCTCGCCTTAGCTCAAAG
AGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGT
CTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATACCATACAACCACGCCG
GAATTAAGTTTAAATTTGAATAAAAGGTTCGGGTTCTGCAAAATACAGAACCCGAACCTT
GTTCGGATATTGAAACCGGCTGCCCGATTTTGGGCGGTGCGGCTTGCAAGTATCAAGATT
CGCATATGCCGTCTGAAGCTCGGAGAGGTTCAGACGGCATATGCTTATTTGGGCTGCTCT
TCAACGAATCTCGGACCTTTCAAGATGCCGTTGTGAGAATArGGCGACAGCAGGTTGTAT
GCsGCGGTTTTGGAAACCTGATAACCGCGGTCGGTCAGGCTGTTGGCAATCTGATTGACC
ACTGCGCTGACCAAAGCCCCCAACAGGCCGCTGTTGCTGTTGTTGCTGCCTTCGCGGATG
CTGGCCGAACCCGACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 302>:

GNMCZ04F gnm_302

GACGGCCAGCAACATATACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTA
GAGGATCCCCGCGGCGAATAAGGGCAAATGTCAGGACGGCGCGATCGGTGCGGCTGTGGG
TGAGATTGTCGGGGAGGCTTTGGTTAAAAATACCGATTTTAGCGATATGACCCCGGAACA
ATTAGATCTGGAAGTTAAGAAAATTACCGCCTATGCCAAACTTGCGGCAGGTACAGTTGC
AGGCGTAACGGGAGGAGATGTCAATACTGCTGCACAAACCGCACAAAACGCGGTAGAAAA
TAATGCGGTTAAAGCTGTTGTAACTGCTGCAAAAGTGGTTTATAAGGTAGCCAGAAAAGG
ATTAAAAAACGGGAAAATCAACGTTAGAGATTTAAAACAGACGTTGAAAGACGAAGGTTA
TAATTTAGCCGACAACCTGACCACCTTATTCGACGAAACATTGGATTGGAACGATGCCAA
AGCCGTTATTGATATTGTCGTCGGAACAGAGCTGAATCGCGCTAATAAAGGGGAAGCGGC
ACAAAGGTCAGGAAGTTTTAGAAAAAATCGTCCTATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 303>:

GNMCZ23F gnm_303

CCGCATTGAAAGCGGAGACTTATTTTTGTCGCCCTTACCATTCTTGGGAGAAAGGGCTGA
ATGAGAACACCAACGGACTCATCCGGCAATACTTCCCCAAACAAACCGATTTCCGTAACA
TCAGTGATCGGGAGATACGCAGGGTTCAAGATGAGTTGAACCACCGACCAAGAAAAACAC
TTGGCTACGAAACGCCAAGTGTTTTATTCTTGAATCTGTTCCAACCACTAATACACTAGT
GTTGCACTTGAAATCCGAATCCAAGGCCGTCTGAAACGATAAGGTTTCAGACGGCATTTC
TTTCTTTATAGTGGAGAACTTTGGCATTTTTTTTTGGCTCGCTTAGCTTGATGATACGAT
TCTCTAAGGTGCTGTAGCACAAGTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 304>:

GNMCZ29TR gnm_304

TCTGCGGCTCGACGCCTTGTCCTGATTTAAATTTAATTCACTATATTTCATATGCTTATT
TATCTAACTTTTCCCCGGTAACAAGGTAACAACTAAGGGTATCGCTTCCTAGTATAGGTT
TTTTCCAAAAACCCAAAAAAAAACCGCCCTGCATCTTGGACGGTTTCCCCCTTGTTCCCTA
CGTCTTGGCAGTATTCCCCGCAAGCTCTTTTCCGCTTGGCATTCCTGATTTGGCGGTCGT
TCAGCTTTATTTTTGCGGTATTTTTTCGAGGTATTTTTCAGATACCGCAAAAGATATCGT
AAATTTTAGGTTACTTCAATTAGGGCGGATTGGACGGGATTGCACTGTCAGGAAGGGGGA
CGGCACGATAACAATCAGCCTGAAATCCTTGTATTGATTGCAATTGGTTGACAGCGTTGG
ATGGGATTGAACAAAAAACGCCTGAAATTTTCAGGCGTTTTTGTCTGTTGGTGCCGACAG

CGAGATTTGAACTCGCACAGCCTACGGCCACTACCCCCTCAAGATAACGTGTCTACCAAA
TTCACCATGTCCGCATTTGAAAAACTGTTATTTCTGCTGCTGACGAACAAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 305>:

GNMCZ50F gnm_305

CGGCCAGTGCCAAGCTTGCATGCCAGTGCGAAGCTTGCATGCCTGCAGGTCGACTCTAGA
GGATCCCCCAGACGCAGGTACAGATTAGGCGGTGTGCCGTAATCGTACGAATGCCGATTC
AACCTAAGCAGACATCAGTATTTAGGAAGTGGATGTTTGATGGAGCAAAGGTTGTACGAA
GGGTGGAAGGCAACCTGTGGGTGTTTGGTATGGTCGCGCTTGAAAAAACGTGTTTTAAGG
GACAAATGCCGTCTGAAAATCGGTTTCAGACGGCATTTTCTGTTTATTTAAAGCAAACAG
GAAAAGGCAGCAATATTCTGCAGTCTTCCTATTCACACAAGCGTTTTATAGTTAATTAAA
AACAAGATAGTACAATACTCAACTTTGAAGGTCTAACCATGGCATACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 306>:

GNMCZ56F gnm_306

GACGGCCAGCTAGGAAACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTAG
AGGATCCCCGTTCCGTATTGGTTGCAACACCTTTGCCGGCACAGTCGGGAAATGCTGTTG
GATTCACGGCAGCACAAATGAAGTTCGGGGACAGTAAGAATTTCTCAAAATTAGAGAATC
TCAAATACCCGTGCGAAGTTATGGTAACGGTTGAAATGACTTCGACAGGTAAGGGCATGG
TTCCTTCATTAATTGATTTTCAGGTGGCAGAAAAGCCGAAAGGTTGATTTATGAAATTTG
AAGAACGTTTCATAGTTCAAGACTTGGAAACGCATGACTTTATTTATCCCGATCCTTTCG
GTGATGTGGGGTTTACTCAAAATATTAAATCAGCAGGTCAATTTGAAAGCTACGAAGATG
CGTTGAATTCAGGCATAAATGAAATAGGCGGAGGATTCCAGATATTTCAGTTCTTCGTAA
AATCGGAATAAAAGAAAAACAGGCTCGGCGGGCGGTCTGTCAACCTTTCACAAAGCCCGC
AACAAAGGAAAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 307>:

GNMDA71TF gnm_307

CCCCTCCGACCGGGAAGCCTGTGATTTTTATTTCCCAGGCGTATATATGCGGGATGAAAT
GGTAGTTGGGGCGGAGGGCGGCGTTTTGTATGTCGGCGACATCGCCCAGTACAGCCGCAA
CATCCAAGCCGGTATTGCCTTTATTGTCGGAAAGGCGGAACACCGCCGCGTCAGGGTGGT
CGCATCGGGCAGCAGGGCGGCAGGTTCAGACGGCATTGCCTGCGAGGAAAAGCTGGCGGA
ACTGCTGTCGGAATCGGTCGTCCGTATTCCGCCGCTGCGTATGCAGCATGAAGACATTCC
CTTCCTGATACAGGGGATTGCCTGCAATGTGGCGGAAAGCCAAAAGATTGCGCCTGCCTC
ATTCAGTGAAGAGGCACTTGCCGCATTGACCCGTTACGACTGGCCGGGAAATTTCGACCA
ACTGCAAAGCGTCGTTGCAACGCTGTTGTTGGAGGCGGACGGACAGGAAATCGGCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 308>:

GNMDB47TR gnm_308

CTGGTCGGGGGAAGTCCACTTTGTTAAACATTTCAACAGGTAGCCTAAAACCTGAAACTG
GTACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGAT
TGAGCGGGATTGTTCGCCAAGATGATGTCCTTTATGCAGGAACTATTGGCGACAATAAGC
CATAACGCGTGATTTACCAACCTGTTACCATTGAGCCGCGCGAGATCACGCCGCGTATCG

TCCGTGAGGAGAACTACGGTGGCCAATAAATTAAGAAACTACACCATCAACTTCGGCCCG
CAACACCCTGCGGCGCACGGCGTATTGCGTATGATTTTGGAGCTGGACGGCGAACAAATC
GTCCGTGCCGACCCGCATATCGGCCTCTTGCACCGAGGTACCGAAAAACTGGGGGAAACC
AAAACCTATCTGCAAGCCCTGCCCTATATGGACCGCTTGGACTATGTTTCCATGATGGTC
AATGAGCAAGCGTATTGTTTGGCAGTAGAAAAACTTGTCGGTATCGATGTGCCCATCCGC
GCCCAATACATCCGCGTGATGTTTGCCGAAGTAACGCGCATCCTCAATCACTTGATGGGC
ATCGGTTCGCATGCCTTCGACATCGGCGCGATGACCGCCATTCTTTACGCCTTCCGCGAC
CGCGAAGAGCTGATGGACCTTGTACGAAACCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 309>:

GNMDB48TR gnm_309

CTGGTCGGGGGAAGTCCACTTTGTTAAACATTTCAACAGGTAGCCTAAAACCTGAAACTG
GTACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGAT
TGAGCGGGATTGTTCGCCAAGATGATGTCCTTTTTGCAGGTTCTATTGGGGAAAATATTT
CATTTTTTGATGAAAGCCCAAATATGGAGCTCATTGAACAATGTGCAAAAAATGGCACAAA
TACATGACGATATACTTAAAATGCCAATGGGCTATGAGACCTTGATTGGCGATATGGGAA
ATATCTTATCAGGTGGACAGAGGCTTGAGAGTTATTTTGGAGCTGGACGGCGAACAAATC
GTCCGTGCCGACCCGCATATCGGCCTCTTGCACCGAGGTACCGAAAAACTGGCGGAAACC
AAAACCTATCTGCAAGCCCTGCCCTATATGGACCGCTTGGACTATGTTTCCATGATGGTC
AATGAGCAGGCGTATTGTTTGGCAGTAGAAAAACTTGTCGGTATCGATGTGCCCATCCGC
GCCCAATACATCCGCGTGATGTTTGCCGAAGTAACGCGCATTCTCTGTCACTTGATGGGC
ATCGGTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 310>:

gnm_310

TGCCGCTGCTGCTGAAGGGCGCGGACGTGTTCAATACGGGGAATGCGCGTTATGTGCTGA
CGGCTATGTGTATGCCCTTTCCGGCGGTGTCGTGCGTCATCGGGCTGGTGGGGCGGTTCA
GGCTTCAGACGGCATCGGGCAGGGCGGCAAAGTCAGGGGGTGCGGGCAAGGCGGACGGAT
AGGACGCATTTTTCAGCGGGTGCGTCGAGAAGCAGCCGATGTGTTTGGCAGCCGCAGCTT
GGGGGGTGTAGTGCTAATGGCGGTTTCTTTGCTTTTATAGTGGATTAACAAAAAACCAGTA
CTGCGTTGCCTCGCCTTAmCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTG
AATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTA
ATCCACTATACCATACAACCACGCCGGAATTAAGTTTAAATTTGAATAAAAGGTTCGGGT
TCTGCAAAATACAGAACCCGAACCTTGTTCGGATATTGAAACCGGCTGCCCGATTTTGGG
CGGTGCGGCTTGCAAGTATCAAGATTCGCATATGCCGTCTGAAGCTCGGAGAGGTTCAGA
CGGCATATGCTTATTTGGGCTGCTCTTCAACGAATCTCGGACCTTTCAAGATGCCGTTGT
GAGAATAGGGCGACAGCAGGTTGTATGCGGCGGTTTTGGAAACCTGATAACCGCGGTCGG
TCAGGCTGTTGGCAATCTGATTGACCACTGCGCTGACCAAAGCCCCCAACAGGCCGCTGT
TGCTGTTGTTGCTGCCTTCGCGGATGCTGGCCGAACCCGACCACAACTCTTTTCCGTTGC
GGGAATCGACCAGCCGTGCTTTGGCGGATACGGTCGTCACGCTGTCTAAAATTTGATATG
AAGTGCCGTATTCGGTAACCGTAATGTACAAAACCGCATCATTGCCGAAAATCTGATGCA
GTTTTTCCGGCCGGACGGCGTGAATATCGGCGGCATTGGTCAAGCCGTTTTGTTTGAAGG
TTTCCTCCACGACTGCGGCGGGGAAGACGTAATAGCCGGCTTCGGAAAGCGGCGCGGCGG
TCGAAGCCAGTACACCCCATGTTCCGTTGACATCGGGCGATTCGTTCAGCGGCGGAACCA
CCAAAATTGAAGCCGGTTTGCTTTCCTTGAATGACGTGTAGTCGAAATCGGGCGCTTTTT
GAACTTGGCAGGCAGACAGCGCCAACACGGCGGCAAGCCCTAAAATCAAAGGTTTCATCG
CTTGCCTCCTTTACCGGTTTTCATCAGGAAGTCCATAAATACGCCCGATTCGGGAAACAG
CCTTTTCTCTTCTTCAAACTGGCGGAACGCGCCCTCTTTGTCTCCCGAACGGGAAAGCAG
CAGTCCCAGATGGGCGTGCGCACCCGGGGCGGCATTCATTTTTTTGTTGCCGGCTTCCAC
AAAGTATTTTTCCATCTTTTCGGTCTGCTTGCCCAACGAAGTGTCGTCGTTTTTCAAACC

TTCATAGACGGTATCGGGATAGCCGCCGTAATAATACAGGGATTTTTGCCCGTTGCCGCC
GCAGGCGGTCAGAGCCAAGACCGCCGCACACAGCGACAAACGGCTCAAGGTTTTCGGATT
CATCATTTCTCCTTAACGGTTGGGTTGCCATGCGCCGTTGTCAACAGCCTGAACCAGGCT
GTTGACGGCTTCGCGGATTGCCAAGTCTAAAACTTTGCCGTTCAAAGTCGCATCGTAGCC
GGAAGTGCCGCCGAAACCGATGATTTCACGGTTGGAAAGTGCGTATTCGCCCGCGCCCTG
TGCGGAATAGACGATTTCGGAAGTATTGACGTTGACGATATTCAGAGCCACTTTTGCATA
GGCGATTTGCGATTTGCCGCGACCCAAAATGCCGAAGAGCTGATGATCGCCGACATCTCT
GCGTCCGAATTCGGTTACATCGCCGGTAACGACATAATCTGCGCCTTTCAGGTTATGCGC
TTTGCCGGAAATGCCGGATTCCTGTTTTAATGCGTTCAAATTGGTGCGGTTCAGTACGTT
GAAGCGGTTGGTCTGTTGCAGGTGCGTTACTAGAATGGTTTTTGCCTGGCTGCCCAAACG
GTCTTCCCCGTCGGAGAAAATGCCTTTTTGGAAGCTGGAGCGGTTGTCGAATGTTCCGAC
GGAAATCGGGGTACGAACACCGTGATATTGCGTATTGTAGGAGGCGACTTTCTCTACCTC
GAGACTGCGTGAGGATTCGGTCGCACAGCCGGTCAGTGAAACGGCAGCGGCGGCAAGGAC
AACGGCGGTGGAAACGGTTTTCATAAAATTTACCCTAAGGTCAAGTTAAGGAAATAACGG
GGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 311>:

GNMDE39F gnm_311

CGTATTGCGCACCGTCCCCAAAGTCTCCGGCGTCTGCGAAGCGTCAAAAAAGATATTCCC
GACAGCGGGTCCCGTCCTGACCGGCGGAGAAAACAATATCGGCTTCGCACAAAGCAAACG
CTTGGCGGAACTCGGCGTCAAGTCCGCATAAGCCGCGTGTTCAGACGGCATGGCGTTCAG
ATGCCGTCTGAACACTTTGCCTGTATAATCCGCATCTTTACTGTCCAACTTCGCGGTTCG
CAAACCTCCCGCGTTACCAAAACTAGGGTTCGATATGTCAAACCAACAAGCCTTGGTCAT
CTTTTCGGGCGGTCAGGATTCGACCACCTGCCTGATTCAGGCAATCCAAACCTACGGGCG
CGAAAACGTCCAAGCCATTACTATCCAATACGGGCAACGCATGCCGTCGAGCTGGAACGT
GCCCGCTGGATTGCGCAGGATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 312>:

gnm_312

GAATATCCAATAAGACAATATGTTCTTTTGAAAAATACTTTTGGwtTTTTCGCCGAAAAC
AGGACGGTTCAAGTTGCGGAAATTGTTTGCAATTCTTTAAAAGCAGCGGCGGAGGTCACA
ATGAAATGTCCGAATGGGGATGTGGCGGGCGGCAGAAATCATCAATGCTGCCGACTGCCA
TACTTCTGAAATCTACAAAATGATGCATCGATCAAACAATATACCGCTTTAAAAAAACCG
ATGCCGTCTGAAACGCTTTCGGGGTTTCAGACGGCATCAAAAGGGTACGGTCAGCGGATG
ATGCCGCGCGCCGATTGTGCGAAAAAGTCTCGGAATACGGCAAGCTCGGCTTGGGTTTCG
GCGCGGCGGAGAATGTCTGCCTTGGCTTCTTCAAACGGAATGCCGCGATGGTAGAGGGTT
TTGTACACGTCTTTGACGGCGGAAATCTGCTCTGCGGTAAAACCGTTGCGGCGCATGCCT
TCGCTGTTGAGCCCCGCCGGTTCGGCGCGGTAGCCCGATGCCATAAAGTAGGGCGGCACG
TCTTTGTGTACGCCTGCGGCAAACGCGGTCATGGCGTAGTCGCCGATGCGGCAGAATTGG
aAAACCAGCGTGTAGCCGCCCAAAACGACGTAGTCGCCGATGGTAACGTGTCCGGCAAGC
GAGGCGTTGTTGGCGAAAATGGTGTGGTTGCCGATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 313>:

gnm_313

TTATAACATAACAAAATCTTTAACCCACACCGACAAAGGCTGCACCATGAAGAAAACATT
GACACTGCTCGCCGTTTCCGCCCTATTTGCCACATCCGCCCACGCCCACCGCGTCTGGGT

CGAAACCGCCCACACGCACGGCGGCGAATACCTTAAAGCCGACTTGGGCTACGGCGAATT
TCCCGAACTCGAACCCATCGCCAAAGACCGCCTGCACATCTTCAGCAAACCGATGCAGCT
GGTTACCGAAAAAGGCAAGGAAAACATGATTCAACGCGGCACATACAACTACCAGTACCG
AAGCAACCGTCCCGTTAAGGACGGCAGTTACCTCGTCATCGCCGAATATCAGCCTACTTT
CTGGTCAAAAAACAAAGCAGGCTGGAAACAGGCGGGCATCAAAGAAATGCCTGACGCAAG
CTATTGCGAACAAACCCGAATGTTCGGCAAAAACATCGTCAACGTCGGACACGAAAGCGC
GGACACCGCCATCATCACCAAACCGGTCGGACAAAACTTGGAAATCGTCCCGCTGGACAA
TCCCGCCAACATTCACGTAGGCGAACGCTTCAAAGTCCGCGTTCTGTTCCGTGGCGAACC
GCTGCCCAATGCCACCGTTACCGCCACCTTTGACGGCTTCGACACCAGCGACCGCAGCAA
AACGCACAAAACCGAAGCACAGGCTTTCTCCGACAGCACAGACGACAAAGGCGAAGTGGA
CATCATCCCCTTGCGCCAAGGCTTCTGGAAAGCCAATGTCGAACACAAAACCGACTTCCC
CGATCAAAGCGTGTGCCAAAAACAGGCGAACTACTCGACTTTAACCTTCCAAATCGGTCA
TTCGCACCATTAATCCCGCCCGCACAAAAATGCCGTCTGAAGGCTTCAGACGGCATTTTT
TGTTCAAACATCAATACCAACCGCGCAGTTTCATCGCTTTTTCAACACGGCGGATACTCA
TCATGTAAGACGCGGTTCGCAAATCGACATCATACTCTTGCGCCAAGTTCCATATATCGC
GGAACGCGCGTCGCAGGACGACGGTTTCTTTCTCTTGAACTTCGTCAAACTCCCAATAAT
AGCCTTGCAGGTTTTGCACCCACTCGAAATAGGAAACGACCACGCCGCCGCAGTTCGCCA
GAATATCAGGCACGACCAATACGCCGTTTTGACGCAGGATCACGTCGGCTTCGGGCGTAG
TCGGGCCGTTCGCGCCTTCGACTACGATTTTCGCGCGGACTTTACCGGCGTTTTCGGAAG
TCAGTTGGTTTTCCAGCGCGCAAGGGGCGAGTACGTCCACATCCAAAGCCAAAAGTTCGG
CGTTGGTAATTTCTTTGCCGTAACCGGCTTCGTTGGTGATGAAGCCTTTTTCTTGGAACT
CTTTAAACAAAGCTTCCATATCCAAACCGTTTTCGTTGTAAATGGCAACGTCAACAGTAG
AAACCGCAACAACTTTCGCGCCGGATTGATGCGCGTAATAACCTGTGTGGTAACCCACAT
TACCGAAACCTTGAATGGCGTAAGTGGCACCCTTCACGTCCTTGCCCAGTTTTTCCAAAG
CTTGGACGGCGGCGAGGTTCACGCCGTAACCGGTAGCCTCGGTACGCGCCAAAGAGCCGC
CGAACTCAACCGGTTTTCCGGTAAATACGCCCGGCGCGGAATGTTTCACCACGTTTTCAT
AAGCATCCACCATCCACGACATAATTTTGCCGTTGGTATTCACATCGGGGGCGGGAATAT
CGATTTTCTCGCCAATCAGCGGGGCAATCGCTTCAGCATAAGCGCGGGCGATGCGTTCCA
GTTCCGCCTCGGAATAATCGCGCGGATCCAAGGTAATGCCGCCTTTGCCGCCGCCGTAAG
GAATACCCGCAACGCAGCATTTGATGGTCATCCAAATTGACAGGGCTTTGACTTCGTCCA
AATTCACACTGGGATGGAAGCGCACGCCGCCTTTATAGGGGCCGACGGCGTTGTTGTGTT
GCGAACGGTAGCCCGTGAAGGTTTTGACCGTGTCGTCGTCGAGTTTGACGGGAAAATTGA
CTTCCAACACGCGGGTCGGACTCTTCAGGATTTCATAAACGGCCGGATCGGTTTTCAGCC
GGTCACAGGCGGTTTTCACCTGTTTGCGCGCGATTTCAAACGGATTGAGGGTTTCTTTTG
CAAGGGCTTCAGACATTTTGCTTCCTTTTCACAAAGAGAGGTTCGGAATGGAACAAGCCA
TCAGGTTCGCAACTATAACCAATTTTCAAGCAAAATGTAATAGCGTGTAGTTGGAATCGG
CCCGATTTGATTAATCTATATATGATTTTATTTCCCAAGCCGCACGGAATCCGTCTGAAA
AAAGCGGAACACATATCCAAAAAGCAAATGTCCAATTAAATAAAGATATAAGAATCCTTT
TATTTTTTAAAAATTTAATTGGAACGGCGCCGGGATTTGCACACCCTTCCCGACTCCGTT
CCGAAATCCGGAAACACCGCCGGCAAAACCTGTTTCGATTGTTAACAATCCATACATTAG
AAGCCCTGTGCAAACGATGTTAAAATAAACCTTTTCAACCCGACAGAAAACCGGATTATG
AATGCAGCCATCGAACACGTCCAAGCCGTCGCCTTCGATTTGGACGGCACACTGTGCGAT
TCCGTCCCCGACCTTGCCGCCGCCGCAGAAGCGATGTTGGAACAACTCGGTATGAAACCG
CTGCCTGCCAAAGTGGTCGAAAGCTATGTGGGCGACGGCATCGGCAAACTGGTTCACCGC
GTCCTCACCAACGACCGCGACCGCGAAGCCGATTCCGAACTGTGGGAAAAAGGTTTCGTA
TCTATATGAAATACTACCGCGACCATTTGAGCGTCTTCACCCGCCCCTATCCCGAAACCG
AAGCCGGGCTGGCATTGCTTAAATCTTTGGGCATCCCGCTCGCCGTCGTTACCAACAAAA
ACGAAATCCTTGCCTCCGAGCTTCTAAAACAACTGGGACTCGCCGACTATTTTAGCCTGA
TACTCGGCGGCGACAGCCTGCCCGAGAAAAAACCCAGCCCCCTGCCGCTGCGGCACGCCG
CCGAAGTTTTGGGTATCGATGTTGCAAACATGGTTATGGTCGGCGACTCGCGCAACGACA
TCATCGCCGCCAAAGCCGCCGGCTGCCTGAGCGTCGGCGTTACCTTCGGTTACGGCGATA
TGACGCTGCTCTCGCAAGACGATGCGACCCGCCCCGACTGGATTATCGGCTCGCTGCCCG
AAATTTACGAAAACCTGCAACCTCAGAAAAACAAAGAAGAGTAGGCATTCGGACGGCTCC
GGTTTGCGCCGCTATGCCGTCTGAAACCTGCCCCACGCCGAAACCGCCGCCATGAAACCG
CAAAAATCCCTACGCGCCCGCGCGATGGACATCCTCTCGCGCCAAGAACTCAGCCGCATC
GGTCTGAAACGCAAACTTGCACCGCACGCCGAAAGCGAAGAGGAGTTGGAAAACGTGTTA
AACGAATTTGCCGAACGCAACTGGCAGTCGGATTTGCGCTATGCCGAAGCCTATATCCGC

AGCAAAAGCCGCAAACACGGTTCATTGAGGCTGAAACAGGCTTTGGCGCAACAGGGCATA
GATGAAGAAACCAGCCGCAACCTGCTTCCCGACCGCTCAAGCGAAAAACTGGCCGCCATA
GCCGTGTTGCGTAAAAAATTCAAACATCCGGCCGCCGACCTTAAAGAAAAACAAAAACAG
GCACGCTTCCTCGCCTATCGCGGTTTGATGCCGATACCGTTCAGACGGCATTGAAACAT
GCCTGGGATGACGGCTGGGAGGAAGACTGCTGAACTGAATCCTTGAATCTTTTTGCATGA
CGGCGTAACCTTACCTCCATTTCCAACTTTTCCGATTGAGAATAAAATGTCCGAACAATC
CGAGAAAAATCACAACCCACTTCTTGAAGATGAACGCAAAAACCCGGTTTACCGTATGGG
TCAGGCAGTTGCCGGATTCATGCTCGTCGTTTGGGCAGGCGTATTGGCACTCGTGTTTTT
CCTAGTCTTCCGTTTTTGGCTTTCCTAAACAAAATGCCGTCTGAAACCTTCAGACGGCAT
CGGCAGCCCATTTCGGCAGGCTATCCCATCATAGCTTTTTTAGCTTGAATTCCACTTTC
CCATTCCCTAAAATTTTTCCACACCCATTTCAAAATACCCTTTCTTAAAACAGGTACACT
ATGACACAACAACGCCAACTGCCTTCGCACGAACTCATTATGTCCGAACTGATGATGCCG
GACACCGCCAATTTCAGCGGCAACGTACACGGCGGCGAACTCCTGCTCCTGCTCGACCAA
GTCGCCTATTCCTGCGCCAGCCGTTACAGCGGCAATTATTGCGTTACCCTGTCGGTTGAC
AAAGTCCTGTTTAAAGAACCCATCCATGTCGGCGACCTGGTTACTTTCTACGCCAGCGTA
AACTACACGGGGCGTACCTCTATGGAAATCGGCATCCGTGTCGAAGCACAAAACATCCGT
ACGGGAGAAATCCGCCATACCAACAGCTGCTACTTCACCATGGTTGCAGTCAAAGACGGC
AAACCCGTCCCTGTCCCTCCGCTGGAAATCCTGACCGACCGCCAACGCTGCCGCTACGAA
AAAGCCAAAAAACGCAGAGACATCAGCCTGCAAGCCTCCGGAGACGTGTCCTGCGGCTGC
TGACGGCGGACTATGCCGTCTGAAAGACAGGCACATCGCGCCATCCGTTTCCATTGCAAA
CGGATGAAATCAAGCAAATATAGTGGATTAAATTCAAACCAGTACGGCGTTGCCTCGCCT
TAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTA
TCTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATACCCAAA
CACAGTCAAACAAATTTATATGCCCCATCCCTTCCGAATAATTTGAAAACACAGCCGCCA
AAAACAAAAATGCCGTCTGAAAACCTTTCAGACGGCATTTCCAACTTGATTTCAGGCAGA
AAGTCAGAACGCGATATAGCTGTTCGGGTTAACCGGTTTGCCGTTTTGACGCACCTCGAA
ATGAAGCTGCGTTCTGGAAGCATCGGTATTGCCCATCAAAGCAACCTGCTGACCGCGTTT
GACCTGCTGCCCCTCGCCGACCAGCAATTTTTGGTTGTGCCCGTATGCGGTCAGGAAAGA
AGAATTATGCTGGATGATGACCAAGTTTCCGTATCCCCTCAAACCTGAACCGGCATAAAC
CACTTTGCCGTCAGCCGCCGCCAAAACGGGCTGTCCCGCATTACCGGCAATATCGACACC
CTTGTTGTTGCCGCCGAAATCGGCAACCACTTTACCTTGCGTCGGACGCTGCCAAACAAT
GCCGCCGACCGAACGCGTGCCGGAAGGCGAAGCGGCAGGAGATTGCGGGGCGGGCGCGGG
AACCGCTTTATTTTCCGCAGCGGGCGCGGCAGGTTGCGGCGCGGACTGCACAGGCGGTTG
CGCGGCGGGTTTCACAGGGGTTTGCACGGCAGCCGGTACGGCGGGCCTGCTTTCTACGGC
TGCGGTTTTCGGTGCGGCATATCCTGCCGGTTTGACTTTAACAATCTGACCGATGCTCAA
CATATTGTCGGTCATGCCGTTCCACGCACGGAAATCGTCTTGAGAGATATGGTAGCGTTT
GGAAATGTTGTACACCGTGTCGCCGCGCACAATAGTATGCGTCGCCGCGTTAATGTCGAC
GGGTGCGGACTGTACGGGCGGTTGCGCGGCAGCCGGTACGGCGGGCCTGCTTTTTACGGC
TGCGGCTTTCGGTGCGGCATATCCTGCCGGTTTGACTTTAACAATCTGACCGATGCTCAA
CGTATTGTCGGTCATGCCGTTCCACGCACGGAAATCGTCTTGAGAGATATGGTAGCGTTT
GGAAATGTTGTACACCGTGTCGCCGCGCACAATAGTATGCGTCGCCGCGTTGATGTCGAC
GGGTGCGTAAGAAGGAACGTATGTACCCGAAACGGCAGGTGCAGACGGCGGAACATAAGC
AGGAGGCGTATAAACCGGCGCGCTTTGCACCGGCGGCACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 314>:

GNMDE70F gnm_314

CCGTCAAAGCCACCGGCGGCAACAGCGCGTTGGGCGGCGACGATTTCGACCACCGCCTGT
TCTGCCGCCTGCTCGAACAAAACGGACTCTCCCAACTCAACGGACAAGACAGCCAACTCC
TGCTCTCGGTCGTCCGCGGCGGCAAAGGACAATTTACCACGCAAACCGAAGCGCGGATTC
AGGCGACGGTTTCAGACGGGATTGGAATCGACACAAGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 315>:

GNMDF12F gnm_315

ATGACGACGCAGGCTTCGTCTATCATACAGGTTTCGTGGATTTCGGCGTGCGGTTTTGG
AAAGTTCGGATTGCGTTCATTTTTCCTCCTTCGGTAAGGTATATATTGTTAAAGGATTTA
TTAAATATTCCCCCTGATTGCTTTTAAAATCCTGCCTGTTATATCGACCCCGAGTAATGT
TATTATCGGGAATATCAGCTTATATATCATTTTATTGGACTTTTACAGCATAAACCTTAA
ATTATACGCCCTTCTTTTTATATCAGCATCACACTCTATATTTTTTCTCGTCATTATAAA
AAGCAAAACGAGATATTCGTAGGATAGATAAGAATAAAGATAACTCGATATATCCCTATT
ATTTTCCATTTCCGCATTTTTTTCCAAAATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 316>:

gnm_316

CAACAAAGCAATCTAGAAACCCGTCATTCCGGAGCAGGCGGGAATCCAGACCTCCGACGC
GGCGGGAATCTATCGGAAATGACTGAAACCCCGAGATTCTAGATTTCACTTCCGTGGGAA
TGACGTGGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCGAGCAGGCGGGAATCCAGA
CCCCCGACGCGGCGGGAATCTATCGGAAATGACTGAAACCCCGCGTTCTAGATTCyCACT
TCCGTGGGAATGACGTGGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCCGACAACAC
CGTAATCTCGAAATTCGTCATTCCGCGCAGGCGGGAATCCAGCCCCCTGACGCGGCGGGA
ATCTATCGGAAATGACTGAAACCCCCGAGATTCTAGATTycACTTCCGTGGGAATGACGT
GGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCGCgCAGGCGGGAATCCAGACCCCTG
ACGCGGCGGGAATCTATCGGAAATGACTGAAACCCCGCGTTCTAGACTCCACTTCnCGTG
GGAATGACGGTTCAGTTGCGCTCCGACAACACCGTAATCTCAAAACCCGTCCGACAACAC
CGCAATCTTGAAACCCGGGATTCCGCAyAGGCGGGAATTCAGACCTGTCCGCACAGAAAC
TTATCGGATAAAAACAGTTGCCCAAACCACGCGTTCTATAGTGGATTAAATTCAAACCAG
TACGGAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 317>:

gnm_317

GGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCC
TATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTG
CTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTG
AGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGG
AAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAAT
GCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATG
TGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGT
TGTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACG
CCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCTCCACCGCGGTGGCG
GCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA
CCGTCGACCTCGAGGGGGGGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAAT
TCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAAT
CGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGAT
CGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCAAATTGTAAGCGTTAATATT
TTGTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAkGCCGAA
ATCGGCATAATCCCTTATAAATCAAAAGAATAkACCGrkATAkGGTTGAGTGTTGTTCCA
GTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACC
GTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCTAATCAAGTTTTTTGGGGTCG
AGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCCGATTTAGAGCTTGACGG
GGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGG
GCGCTGGCAAGTGTAGCGGTCAcGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCG
CCGCTACAGGGCGCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 318>:

GNMDI14TR gnm_318

ACCTGCCTATGATTTGCTCTGCCACTTGGGCTTTGCCGTCAAAATGCGTGTGGGTGTGGT
TGTCGATTTGTTTGTCCAATTCGTCAATCAGCCGGTCAAAATGGGCAATCAGTTGTTTGA
CGCTTTCGACTTGCGTTTCATGAACCTAATGCAGACGGTTTTTCTCGGCAGTCCGCATAT
CCACCAGTTGGTTGCGGCGGTTAACCAAGGCTTCCAACACTTCTTCCACTTCGGTGGGCA
GGTGGAAGGGCATTGTTTGCGAATCTGCCGTCGGTAACGTCATCTAGAACTTTAATGGCG
GTAAGCTAGAGCATGTTCGGAGTGGGAAGTACCGTTTTTACCGGTGAAACCTTGAACCAA
TACTTTAGTGTCTTTATTAATCAATACGCTCATTCTTTTCTCCTTAGGCGTTTACGGCTG
CAACAATTTTTTCGGCTGCGTCATTCAGGCCGTCTGCAGAAGTCAGTTTCAGACCTGATT
CGTTCAGGATTTTCGCGCCGAGTTCGGCGTTGTTGCCTTCCAAACGAACAACGACAGGAA
CGTTGACGTTGATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 319>:

gnm_319

CCGCTTTTGAAAAAGACGTTTTAAATGCAGATATCCCCGTCCTGCTGGACTTTTGGGCTC
CGTGGTGCGGCCCCTGCAAAATGATTGCCCCGATTTTGGACGACATTGCCGCCGAATTTG
AAGGCCGTCTGAAAGTGGTCAAAATCAACATCGACGACAACGAAGCCACCCCGTCCCGTT
TCGGCGTGCGCGGCATTCCGACCCTGATGGTGTTCAAAAACGGCGAAGTCGTCGCCACCA
AAGTCGGCGCATTGGCAAAAGGTCAGCTGACCGCCTTTGTCGAAGCCTCTATCGCCTGAT
AAAGCGCAATCGAAAAAGCCGCCGGAAGATTCCGGCGGCTTTTTCGCACCCTTAAGATTT
GTGGCGGATTTCCCAGCACCTATGGATTTTTTTGTTGCGGAAATCTTCGGGAACGGATTG
TTTGGAAATGTCTTTGACGGCGTATTGTTCCGATACCAAGTCGTCTAAGACGAAGCTGCG
CAGGTTGTTGGAAAAGTACAAAATGCCGTCTGAAGCGAGCAGCTTCACCGCGCCGTCAAT
CAGCTTTTTGTGGTCGCGCTGGATGTCGAGGATGTCGGACATTTTCTTGCTGTTGGAAAA
ACTGGGCGGGTCCATCACAATGAGGTCGAACCGCCTGCCTTCCCCATATGCCGTCTGAAG
ATATTGGAACACGTCGGCGCGGACGATTTTGTGTCGTTCCGTATCGATGCCGTTCAATTC
AAAATTGCGTTTCGCCCAATCAAGATATGTGTTGGACAAATCGACGGTTTCGCTGGATGC
CGCGCCGCCGGTGGCGGCATAGACGGTGAAGCTGCCGGTGTAGGAAAACAGGTTTAAAAA
ACGTTTGCCCGCCGCCGTTTCGCCGACTTTTTTGCGCGTGTTTCGATGATCCAAAAAAAG
CCCCGTATCCAAATACTTATCAAGGTTGACCCAAAACTTGCGGCCGTTTTCGGTGATGAC
GAAATCGTCGCCCGCCTTGCCGGTTTTCTCGTACTGCTGCAAACCTTTTTGGCGTTCGCG
GCGTTTGAGGCGGATTTGTTCGGGCGCAAAACCGGTAACGAAAGCGACGGCTTCCAAGAC
TTCGGCAAGCCACGCTTCGTATTCTTCGGGCCGCATCAGCCAGCCGGTATCGTATTCCTG
AAGGTGGATTCGATCGCCGTAAACATCGGCGGCAAAGGGGAATTGGGGGATGTCGCGGTC
GTAAATGCGCCAGGCTTCGATGCCGTTGCGTTTCGCCCATTTCATAAGGTGTTTGATGTT
TTTGCCCAAGCGGTTGGCAAACGGTGTGATGTCGGTCATTGGTTTCAGGCGGAATAAAGT
GGAAAACGGCAATTTTACTGTAATTAACGCCCGATTGCTTGACCGTTTCGGGCAAACCCT
ATACCATCCGTCGCTTATCTTGTCATACGAAGCCATCGCCTTCCAACCTAAACCGCCCTT
ACGGGCGCGTTTCTTCTGTTGCTTTGATTTTGCAAAGCATATCTGTGCAGGTTGCCGTCG
ATGTAAACCACAAGCAAGCCGCTTGCGACAACCCTGTAACTTCACATTCCCCGTATCGTT
ACCCTTCCCTGCTTCAGGCCGTCTGAACCTTTCGGACGCGGGCGTTGTTGTCTTCCAAGG
ATAGCCATGTCTATTAAATTTGCCGATTTGAACCTTGATAAAAACATTTTGTCCGCCGTC
AGCAGCGAGGGTTACGAAAGCCCGACGCCGATTCAGGCGCAAGCCATTCCGTTTGCTTTG
GAAGGCCGCGACATCATGGCTTCGGCGCAAACCGGCTCCGGCAAAACCGCCGCCTTTCTG
TTACCGACTTTGCAAAAACTGACCAAACGCAGCGAAAAACCGGGCAAAGGCCCGCGTGCT
TTGGTGTTGACCCCGACCCGCGAACTGGCGGCTCAAGTCGAGAAAAACGCGCTGGCGTAT
GCCAAAAATATGCGTTGGTTCCGCACCGTCAGCATCGTCGGCGGCGCGTCTTTCGGCTAC
CAAACCCGTGCCCTGAGCAAACCGGTCGATCTGATTGTCGCCACGCCGGGCCGTCTGATG

GACCTGATGCAAAGCGGCAAAGTTGATTTTGAACGTTTGGAAGTGCTGATTTTGGACGAA
GCCGACCGTATGTTGGATATGGGCTTTATCGACGACATCGAAACCATCGTGGAAGCAACG
CCGAGCGACCGTCAGACTTTGTTGTTCTCCGCCACTTGGGACGGCGCGGTCGGCAAACTG
GCGCGCAAACTGACCAAAGACCCTGAAATCATCGAAGTCGAACGCGTGGACGATCAAGGC
AAAATCGAAGAACAACTGCTGTACTGCGACGATATGCGCCACAAAAACCGCCTGCTCGAT
CATATCTTGCGCGATGCCAATATCGATCAATGCGTGATTTTCACGTCCACCAAAGCCATG
ACCGAAGTCATTGCGGATGAACTGTACGAAAAAGGTTTCGCCGCAAACTGCCTGCACGGC
GATATGCCGCAAGGCTGGCGCAACCGCACGCTGATGGATTTGCGTAAAGGCCGCTGCAAA
ATTTTGGTTGCCACCGATGTTGCCGCACGCGGTATCGACGTACCGACCATTACCCACGTT
ATCAACTACGACCTGCCGAAACAGGCGGAAGACTACGTCCACCGCATCGGGCGCACCGGC
CGCGCAGGCCGCACGGGTATTGCGATTACGTTTGCCGAAGTGAACGAATACGTCAAAGTC
CACAAAATCGAAAAATACATTAACCGAAAACTGCCCGAACTGACCATCGAAGGCATGGAA
CCGACCCGCAAACGCAAATCCGCAGGCGGCAAGCCGAAAGGCAAAGGCGGCTGGGGCGAT
CGTAAATCCGGCGGTTGGCGCGGCGATCATAAACCGAGCAAAGAAGGCTTCGGCGGCAAA
ACGCGCGGCGAAGGTTTCAAGAAAGAAGGCTTTAAGAGAGACGGTTTCAAAAAAACCGGC
GAAGGCTTCAAAGGCAAACGCAAAGCCGGCGATTCTTTTGCAGGCAAAGGCGAACGCCGT
TACAAAGACCGCTAAGCCCCAACCTGCCGCATAAACCAATGCCGTCTGAAACCGATTTCG
AGTTTCAGACGGCATTTTTGCAATGTTTCAGCACCGCCCGGCTTTGATACCCAAAGGATT
AGGCTGTAATAAAAACCCTTTTCCGCTTTGGCAACGATTGAAAATTTCCGTAAATTCAAA
TATCTAGATTCCTTCCTGCACGGGAATGACACGGAAGGGTTTCAGATGCAGGGTGGGCAT
TCCTGCCCACCCAATCCCGCCCTTGCAACGGTGGGCAAGAATGCTCGCCCTACGGCTTGA
CTGTTCGATATGATGCCGTCTGAAAACCCAACGGCGGCATGACAATGCCACCCTGCCAAC
GCACGTAAATCAGAATTGCCATCCCGACATCAAACGCTTGGAAACAAAATGCCGTCTGAA
AATCAAACGGCAACATAACAATGTCCCTAACAAATGCAAAAATGCCGTCTGAAAGCTCTT
CAGACGGCATTGGCGCGCCGGGTTTACCGCCTCCTGCCGAAACCGCGCATAGCGGGGCGG
CGGTAATTGGCGGGCGGGCGCGTTGTCGGGCGGTAACGCTGCGCCTGCGCCGCCTGTTGT
TTTGCACGGAGGCTGCGCGTGTTCAAATCCCTGCTGGTGCGCGCATTGGGGCGTGCGGAC
TGATGGTAGGCTGCACGCGCGCGCCGGGCGACGGACTGTCTTGGTTGCCTGCCCGTGTG
AATTTGTTTGCCAGCGCGTTGCCGATAAACGCGCCTGCCGCCGCGCCGACCAGGCTTTGC
AGCAGCCAGCTTCCTGTCGATTGGTCGTAAATATACTGCTGCCCGTCTTTACCGGTAACG
GGTTGCCCGTTGTTGCCGTTTGCCTGTGCTTCGGCAGGAATGGTGTCTTTGACTGCTTCG
GGAGTCAGTTGGTAAACCGTATCGTCTGCCTGCTGTGCGAGCTGCTGTTGCAGGGCTTCA
ATCTGTTTCTGCTGCTGTTCGAGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 320>:

GNMDI61TF gnm_320

CACCTGCACGCACAATTCGTGTTTCCAACGTTTTGCCGATAAAGGGCATGATTTCGGAGT
GTTCGCCGCGATTCACCATCGCAATTTCCTGCAGACCGGCGATTTCTTCAATGAAACGAA
CGCAACGGGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 321>:

GNMDI91TR gnm_321

TCGCGCACGATGATGGGGGGCAGTTCTACGGAGATAGGGTTGCCTTCGTAGAACGTTACT
ATCGCATTGGTCGTCCATGCCGTCAACGATGAAGTTCAACGCGATCGGGACGCTTAAAGA
CGGTTTTGGCATCGCCGTCGTCCCGCCTCCGATTCTGGAGTTGGGCAACGGTTCGGGTCT
GAGCATCAACCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 322>:

gnm_322

CAAAAACTGTACGTACAGCTAGTTTGCAGACCCGATGTACGTCTTTATGGACGAAGAATT
CAACCAATATGAAATCGAAGTTGACAACATTGGCGATCATTTTAATTTATCGGGTATAGA
CTATTTCGGCGAGGACGAAGATATAGATTTCCACGATTGAATACATGGAAGCCAAGTACG
TCTATCAACACTATATTAAAACACAGCCTTTTATTTTGAGGTTTGGGGTAATTTTTAAAC
CGTCATTCTTACGAAAACAGAAAATCAAAAACAGAAATCTCAAATCCCGTCATTCCyGCG
CAGGyGAGAATCTAGACATTCAATGCTAAGGCAATTTCTCGGAAATGACTGAAACTCAAA
AAACTGGATTCCCACTTTCGTGGGAATGACGGAATGTAGGTTCGTGCGAATGACGTGGTG
CAGGTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGACATTCAATG
CTAAGGCAATTTATCGGGAATGACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGA
ATGACGCGATTAGAGTTTCAAAATTTATTCTAAATAGCTGAAACTCAACGCACTGGATTC
CCGCCTGCGCGGGAATGACGAAGTGGAAGTTACCCGAAACTTAAAACAAGCGAAACCGAA
CGAACTGGATTCCCACTTTCGTGGGAATGACGGAATGCAGGTTCGTGGGAATGACGGAAT
GCAGGTTCGTGGGAATGACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 323>:

GNMDI95TR gnm_323

TCCACACAACGTCAATAATTCCAACACAAAATACGCCAACCGCATTGGTTTGACACGCCA
GCAACCGCTTTTTGCTTCACAACAGTGATATTGTGTTGGCTTTTCCGTTTAAAGATTGTG
TGTTAAATGGCGGACAAAGCACCGAGGAAGGCGAAGAAATTTATTTTAAACGCAATAACA
GCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGACA
GTCAACCAGCCAGACAGCCACTTATAACAAGGCGAAGACAGCAAAAAACTGCCCGAAATG
AGCGAAGGCGACAAATTGCCCGTGGACAAACTCTACGGCGAACAACACTTTACCACTCCG
CCGCCACGCTACAACGAAGCCACGCTGGTTAAAGCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 324>:

gnm_324

CGCGATAAAGAGCACGTTCCGGTTTCGATTTACTTAGTTAACGGTATCAAATTACAAGGT
CAGGTTGAGTCTTTCGATCAATACGTTGTTCTCCTGAGAAACACTTCCGTCACCCAAATG
GTTTACAAACACGCCATTTCCACCATCGTACCGGCACGCTCCGTCAACCTACAACATGAA
AACAGACCCCAAGCCGCACCGACTTCGACCCTCGTCCAAGTGGAAACCGTCCAGCAGCCT
GCCGAATAATCCGCACGAAGCATGACGTGTCATATCTTTCAATACCTTACCGGACAACGG
TAAGGTATTTTTATTTTCAGACAGCATTTAAAAATGTTATTGCAAAACATCCTTCCATTC
GCCCATTGCCTTTTGCGGAAGGCACTTCCCGAAGGTGGCAATGCTTTGGACGGCACCGCC
GGCAACGGACACGACACCCTTTTCCTCGCACAAACCGCAGGCATCCGGGGGAAAGTGTGG
GCATTCGACATCCAGCCGCAAGCCCTGAACAACACCCGATGCCGTCTGCAGGAAGCAGGT
TACAGCAATGTACGGCTCATCTTGGACGGACATGAAAACCTGAAGCAATATATTCCAAAG
CCGCTGGATGCAGCCATTTTCAATTTCGGCTGGCTGCCCGGCGGGGACAAAAGCCTTACC
ACCCGCACGGAAACCAGCATTGCCGCCCTTTCTGCCACCTTATCCCTACTGAAAGAAAAC
GGTATGCTTATTGCCGTCCTCTATCCGGGACACGAAAACGGCAAACAGGAGGCAGAAGCA
ATCGAACAATGGGCAAAAAACCTGCCTCAAGAACAGTTTGCCGTTTTGCGTTACGGCTTT
ACCAACCGGAAAAACAGCCCACCCTATCTTTTGGTATTTGAAAAACTGCGTCAAAAATAA
CTGTTTGCGGTAAAATAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 325>:

gmm_325

TTGGAAGCCTTCTGCAAAGGTCAGGACACGCTTGCGGGCATTGCTGAAGACGAGCCGACC
GGATGCCGGTCGGTCGTGTCGCTGAACAATACCTGTGTCGCGCTGGCATACCCGAAAGCC
TTGGGCGCGCTGCGTGTCGACAACGCCGTCGTGATTACTTCTCCGCGTTTTACGAGCGTT
CATCAGGTCGCACTCAACCAGTGCATCAAAAAATACGGCGTACAGGGACAATGCGGCTTG
GAAACAGTGTATTGCACATCTTCTTCTTATTACGGCGGAACTGTGCGCTCTTTGATTCAA
AATCTCAAATAAAACGGAAAATGCCGTCTGAAAGATGTTCAGACGGCATTTCTATATCGA
CGGTCAGGATTCTTTCGGATCGGGCAGCAGGCTGTTCAACATAATGGCAAGTACGGCGCA
CAAGCCCACGCCGGCAAAGCTGAAGCTGCCCAATTTGAGCGTCATGCCGCCGATGCCCGT
GGTCAGTACCGAGCTGACGATGACCAGGTTTTTCGGCAGCATCAAATCGACTTTGGCATC
AATCAGCGTTTTCACGCCCAAAGAAGCAATCGTGCCGAACAGCAGCAGCATAATGCCGCC
CATTACTGGCATCGGAATGGAAGCCAAAAACGCATTGAATTTGCCGAAAAACGCCATGCA
GACGGCAAAAACCGCCGCCCAAGTCATGATGACGGGGTTGCTGTTTTTGGTAATCATCAC
CGCACCCGTTACTTCGCCGTAGGTCGTAACCGGCGGGCCGCCGATCAGACCCGCAACGCA
TACGCCCAAACCGTCGCCTGCAAGGGTTTTGTCCAAGCCCGGGTCTTTCGTATAGTCTTT
CCCCGTCACATTGCCGATTGCCATGATGCCGCCGATGTGTTCGATGGCGGGGGCGACGGC
AACGGGCAGCATAAACAGTGCAGCCTGCCAGTTGATCTGAGGCGTTTCAAAATGGGGAAC
GGCGAACCAGGGCGCGTGTGCAATGCTTGCCGTGTCCACCAGTCCCATCAGCAGTGCCAA
AACATAACCCGAAGCGACACCGATCAAGATGGGAATCAGCTTCATCATCCTGCTGCCGAA
AACCGATACGATGGCGGTAACGGCAAAGGTAAAGCCGGAAAGATCAGCGAATCGGTATAG
TCGATGACCTGTTTGCCGTCCGCCTGACnCATTGCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 326>:

gmm_326

AAAAATTGGGTGGTTTTACCAAAAwTTTAAGGGGAATTTTAACAAATTATTAACGCTTAC
AATTTGCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTC
TTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAAC
GCCAGGGTTTTCCCAGTCACGACGTTGTAAAACGACGGCCAGTGAATTGTAATACGACTC
ACTATAGGGCGAATTGGGTACCGGGCCCCCCCTmGAGGTCGACGGTATCGATAAGCTTGA
TATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTsTAGAGCGGCCGCCACCGCGGTGGA
GCTACCAGCTTTTGATTACCCTTATAGTGACGGGTTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 327>:

gmm_327

TTGAAGAAATATGCAGGGGAGGGTATATGCGGATTTTTACTTTCAGCTTAATGTGTmTCA
AATCGGGTGTGGGGTATGTATAGTGGATTAAATTTAAACCAGTACGGCGTTGCCTCGCCT
TGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGcCTTGTCCTGATTTyTGTTAATCCAC
TATAAAAAGCCGCATCGTGAAAAGATGCGGCTTCAGGTATCGGTTGGATTATTCTTCAGA
ACCGGTGTAAGGACGGATGCTGACAGTTTTACGGTTCAGCGCGCCTTTGGTTTTGAATTC
GACATAACCGTCAACTTTGGCGAACAAAGTGTGGTCTTTGCCCATACCTACGTTGTCGCC
TGCGTGGAATTTGGTACCGCGTTGGCGTACGATGATGGAACCTGCGGGAATCAGCTCGTT
GCCGTAGGCTTTAACGCCCAAGCGTTTGGCTTCTGAATCGCGACCGTTGCGGGTGCTGCC
GCCTGCTTTTTTACTTGCCATTTGTAATGCTCCTAAGTTTTAAGGTTAGGCGATTGCCAC
GATTTCGATTTGGGTGAAATTTTGGCGGTGGCCTTGGCGTTTTTGGTAGTGTTTGCGGCG
GCGCATTTTGAAGATGCGGACTTTTTCGCCACGACCGTGTGCCACTACTTTAGCCGTTAC
TTTTGCACCTTCGATAAAGGGTGCGCCAACTTTTACAGATTCGCCGTCAGCAATCATCAA
AACTTCGGTCAGTTCGATTTGGCTGTCGAGTTCGGCTGGTATCTGTTCTACTTTCAATTT
TTCGCCGACGGAAACTTTATACTGTTTGCCGCCGGTTTTTACGACCGCGTACATACTCAA
CTCCATAAGGGTTATGGTTAATATCCnGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 328>:

gnm_328

GTAAGATTCACCGTCTGGAAGACTGGGGTCGCCGCCAGCTGGCTTACCCGATTAACAAAA
TCCATAAAGCCCATTACGTTTTGATGAACATCGAAACCACTCCCGAAGTGGTTGAAGAGC
TGGAAACCGCATTCCGCTTCAATGATGCArTATTGCGTCATCTGACCATCAAAACCAAAC
ACGCCGTTACCGAAGCATCCCCTATGTTGGGTGGTGAAAAGGCTAAGAACCTGTTGAGCG
GTGCGTCTGAAGAAGCGGTCGCCCAATAATTGGGATTCAATAATCTTGTTTCGCTTGCCG
CGTTAATTGAAAAGGTTTTCCCTATTCGATATACGCCTGCCGGAATCCCTGTTTTAGATA
TTATTTTAAAGCACGAATCGTGGCAGGAGGAAAACGGGCAGCAATGCCTTGTCCAATTGG
AAATTCCGGCACGGATTTTAGGCAGGCAGGCGGAAGAGTGGCAGTATCGGCAAGGTGTAT
ATGTTCACGTCGAAGGTTTTTTAGCTCAAAAAAGCAGACGTTCCCTTATGCCGATGCTCA
GGATACAAAATATTCAAGAATATAAAGGTTAAACGACAATGGCTCGTCAATCATTCAAAC
GTAGAAAATTCTGCCGTTTCACGGCTGAAAAAATCCAAGAAGTCGATTACAAACAAGTTG
ATTTGCTGAAAGACTTCATCTCCGAAAACGGTAAAATCATTCCTGCACGCATCACAGGAA
CGAAGGCATTCTACCAACGCCAATTGGCTGTTGCCGTAAAACGCGCACGCTTCCTGGCTC
TGCTGCCTTACACCGACCAACACAAATAATTTTGGAGATTGAATCATGCAAATTATTCTG
TTAGAAAAAATCGGCGGTCTGGGCAACTTGGGCGACATCGTAACCGTTAAAAACGGCTAC
GCCCGCAACTTTCTAATTCCCGCAGGTAAGGCAAAACGTGCGACCGAAGCGAATATGAAA
GAGTTTGAAGCACGCCGCGCAGAACTGGAAGCCAAACAGGCTGAAATTTTGGCAGATGCC
CGAGTCCGTCAGGAAAAATTGGACGGTCAAACCGTTACCGTTGCTCAAAAAGCTGGTGTG
GACGGTCGCCTGTTCGGTTCCGTTACCAATGCCGACATTGCTGCTGCAATCGTTGCTGCC
GGCATCGAAGCCGTGAAAGCAAATGTACGTCTGCCGAACGGTCCTCTGAAAGCCGTTGGC
GAGTACGAATGGAAGTGGCTTTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 329>:

GNMDN42TR gnm_329

GGAGCGATGTAGCCCCATTCGGCGAGGACGGTCGTCATACCGGCGTTGCGCCCCGCCTGT
ATATCGCGTTCCGCGTCGCCGACGTAGAGTGTGTGTTGCGGGTCGGCGTGGATTTGTCCG
CACGCATACAGCATGGGTTTGACGCTGGGCTTGGGCTCGCCGCAGGTGTCGCCGCTGACG
ACGACGGCGGGTGGGATGATGAAGCCGAGTTTGGGGACGAGTTTGTCGGTGAAGCGCATG
GGTTTGTTGGTGATGATGCCCCATTTGATGCCGCGTTTTCCGAGTTCGGCGATGAGTTCG
TTTACGCCGTCGAAGAGGGTGGTGTCTTGGGCGTAGCGGCTGTCGTAATCCGCAAGGGAA
TCCGGTGCGCAATCGGGCATAGTCGGGATGGTCGGGGGTGATGCCTGCGCCGAGCTTGAT
CAGTCCTGCCGCGCCGTGGCTGGCTTGGGTGCGGATTTCGTCCATGCTTTTTGCAGGTAG
TCCGTGGCGGGCGAGCAAGGTGTTGAGTGCGCCGCCGAGGTCTAAGGCGGTGTCGGCGAG
CGTGCCATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 330>:

gnm_330

ACGAGCCGAGCAACCATTTGnGATATCGACGCGATGAATCCGGCGGCAAGGTTTGCCTGA
TAGCAGACGAACACCAGCCCGACATCAAGCTGTCCGCTTGAGGCGAGTCCGCGCGAATAG
CTGTAGGCGCGGCGGAAGAGGCGGTGTTTTTTGAGGAATTCGGGATCGCGCGGATTCGCC
AGGCGTATATGGCTGTCTTTGGGCGTGATATCACCCTCGGGGTCTTTGGCAAAATCCGGT
TGGTCGGCTTCTTTTTTGCCGTCCATCGGCGCACCGCTGTATTTGCGCCGCCCGAAAATG
TCGGTTTGCTCTTGAAGCGGCGTCCTGTCCCAAAACTCGACAAAGTGGCGGATAAGGCGG
ACTGCCTGATAGCTGCCGTTTTTCGCCCACTCCGGTTCGTCGAGGCTGTTGGCGGCCACC

CCCGTCCACAAAACCTCGTCGGCAGTTTTGGGATCGGAAACTTTGGGGTTGCCCGTGCCG
TCCCTGAAGCCCAACAGGTTGCGCGCCGCCATCGCGCCGGGTTCGGATTTGGGCTGCCAC
CCGTCGATACTCCAACGGATAACGGCGGTTTGGACGGTGTGTTTGATGATGTCGCGCAGG
CGGCTTGGCAGGTTTCGGGGGTGAAGGCACAGATTTGCAGGCTCAAATCGCCGTCGCACC
AGCTTTTTTGCAGCTTATCGTTGGAGAAGTCGCGCATTTCCTGCAAATGAATCGGTTTTT
TGTCTTTGAGTCCGAACCGGCCGTCAAACAGGCTGCTGCCCACCCCCACGGTAACGGTCA
ACCCGTCGGGGTTGAAGGCTTTGCCCAAAATGCCGCTGCCGGCTGGCGGAAGTTTGTCGT
CGCCGTCTTGGTAATCGCCGCCTTTGGTGAGAAACTCGATGCGGGCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 331>:

GNMDO70R gnm_331

AAAAACCAGGTTTGGCATCCTCCAATAAAGAAGCGCGCGGCTTTGCAAAACCAGCCCAAG
GTAAAGGGGAATGGGCAATATTCAACAATAAAGGACAAAGACAGGGAACGCAAATTTATC
TATAATAAAAGCGGCCGGGGTGGAGGCTCTGTCTTTTTCGACAATACCGATACCCTTGTT
TCCCGACAAAGCGGTACTGCCGTTTTTGGCACAGCCACCTACCTGCCGCCCTACGGCAAG
GTTTCCGGTTTTGATGCCGACGGGCTGAAAGAGCGCGGCAATGCCGTTAATTGGATTCAT
ACGACCCACCCAGGGTTGATAGGCTACAGCTACACCAGTGTCGTATGCAGAGACAGCACA
GGCTGTCCCAAACTTGTGCTATAAAACCCGATTTTCCTTCGACAACACCGGTTTGGCAAA
AAATGCGGGCAGCCTGGATAGGCACCCGGACCCAAGCCGCGAAAATTCGCCCATTTACAA
ATTGAAGGATCATCCATGGTTGGGCGTGTCTTTCAATTTGGGCAGCGAGAATACCGTCAA
AAATGGCAACTCATTCAACAAATTGATATCTTCTTTTAGTGAAGACAATAATAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 332>:

gnm_332

GCCGGCGGCGGAAGAGGCGTTTTCAAAGTTCAAATGGAAACGTTGCCGcTkCAAawAmAG
CrAkTGTACACCGTCAAAAACGTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAG
CCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACcTTAGAGAAT
CGTTCTCTTTGAGCTAAGGCGAGGTAACGCCGTACTGGTTTTTGTTAATCCACTATAACG
CAAGCACCGCAAAGCCGCGCCAACCCTCTCCCAACCTTTTTTCAGACGGCATTTTCGGTA
ATCTGCTAAAATCGCCCGCTTGAGTTTCCACAGAAAAATCCGAAAAATGAATATTTTTTA
CGAAGAGTCCGGCCAATTCAAAATCGCCGCCATCATCCAAAAAAACGATGCCACCTACCA
AGTCGATACCCCACACGGCAAACGCACCAAAGTGAAGGCGAACAACGTCTTTGCCGAGTT
TGACGGCGATATGGCGGCGTTTTTGGAAAACGCGCAGGCACAGGCGGCGGACATCGACAC
CGATTTATTGTGGGAAGTATGCGGCGAAGAGGAATTTACCGCCGAAGCCATCGCCGAAGA
ATATTACGGCCATGCGCCGACCAAAACCGAGCTGGCGGCAACTTTGATTGCGCTTTACGC
CGCGCCGATGTATTTCTACAAAAAAGCCAAAGGCGTGTTCAAAGCCGCGCCCGAAGAAAC
TTTAAAACAAGCACTTGCCGCCATCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 333>:

gnm_333

TGGGCAGAGAATTGTGTTCATGTCTGGCATTGATTTTTCCTGTCCCATTATCATCGTCGT
TAAAAGAGTATTTCCCATTTTGACGTGGTTCGTAGAATACTGAATGGGTATACTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 334>:

GNMDQ93TF gnm_334

CCCCGTAAGAAGAAGGCAAAAGCGATTTACAGATCAAATGGCAGCAGAATAAACCCATAC
GGTTCAGTATCGGTATAGATGATGCGGGCGGCAAAACGACCGGCAAATATCAAGGAAATG
TCGCTTTATCGTTCGATAACCCTTTGGGCTTAAGCGATTTGTTTTATGTTTCATATGGAC
GCGGTTTGGCGCACAAAACGGACTTGACTGATGTGTGGACGACTTAAACTGAAAGCGGGT
CCAGAAGTTACAGCGTGCATTATTCGGTGCCCGTAAAAAAATGGCTGTTTTCTTTTAATC
ACAATGGACATCGTTACCACGAAGCAACCGAAGGCTATTCCGTCAATTACGATTACAACG
GCAAACAATATCAGAGCAGCCTGGCCGCCGAGCGCATGCTTTGGCGTAACAGACTTCATA
AAACTTCAGTCGGAATGAnATTATGGACACGCCAAACCTATAAATACATCGACGATGCCG
AGATCGAAGTACAACGCCGCCGCTCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 335>:

gnm_335

CCTGAAACGCTGGAAGCCAAAATGCTGACCGGCAAATCCGGTTACGATTTGGTCGTGCCG
GGCATCGCCTTCCTGCCGCGCCAAATCGAGGCGGGCGCGTATCAAAAAGTCAACAAAGAC
CTGATTCCCAACTATAAAAACATCGATCCCGAACTCTTGAAAATGCTGGAAACCGCCGAC
CCGGGCAACCAGTATGCCGTCCCCTATTTCTCCGGCGTGAACACGATTGCGATTACGGCG
AAGGGCAAAGAGCTTTTGGGCGGCAAGCTGCCCGAAAACGGCTGGGATTTGCTGTTCAAA
CCCGAATACACCCACAAGCTGAAATCCTGCGGCATCGCCCTGTGGGACACCCCGAGTGAA
ATGTTCCCGATTTTGCTGAACTACTTGGGCAAAGACCCCAAAGGCTCGAATCCTGAAGAC
TTGAAGGCGGCGGCGGAAGTGTTGAAGTCTATCCGTCCGGATGTCAAACGTTTCAGCCCG
TCCATCATCGACGAGCTGGCACGCGGCGACATCTGCCTGGCGGCAGGCAACGGCGGCGAT
TTGAACTTGGCGAAAGCACGTTCCGAGGAAGTGAAAAACAACGTCGGCATCGAAGTGCTG
ACACCGAAAGGTATGGGCTTCTGGATTGAGTCTTGGCTGATTCCCGCCGATGCGAAAAAC
GTCGCCAATGCCCACAAATACATCAACTACACGCTCGACCCCGAAATCGCGGCGAAAAAC
GGCATCGCCGTAACCTTTGCCCCCGCCAGCAAACCGGCGCGCGAAAAAATGCCTGCCGAG
CTGGTGAACACCCGTTCCATCTTCCCGAACGAGCAGGATATGAAAGACGGTTTCGTGATG
CCGCAAATGAGCACGGATGCGAAAAAACTGTCTGTCAGCCTGTGGCAGAAAATCAAAGTC
GGCACCAACTGATTTGAAGCATTAAAAATGCCGTCCGAACGATGTTCGGACGGCATTTTA
TATTGGATTGAAATAGAAATATTTATATAGTGGATTAACAAAAATCAGGACAAGGCGACA
AAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAG
AATCGTTCTCTTTGAGCTAAGGCGAGCCAACGCCGTACTGGTTTTTGTTAATCCACTATA
CCGTCGTTCCCACGGTCAGGATTTCAGATTGCGGACATCTGTCAGAAAAGACAAAAAACC
TTCCGCCGTCATTCCCTACAGGCGAGAATCCGATCCGTTGAAATTCGGTTGTTTTAAATA
AATTCTTGCAGCTTTGATTTTCTGTTTTTCCGATAACGCCGTAACTTTGAAACGCGAAAG
CGGTAATCCGATCCGTTGGGATTTTGCAACTTCAAATCAATCCGCAAACTGAAATCCCGT
CATTCCCGCGCAGTCGTGAATCCGAACGCGTCCGCACGAAAACCTGCATCCCGTCATTCC
CACGGAAGTGGGAATCTAGGACGTAAAATCTCAAGAAACCGTTTTATCCGATAAGTTTCC
GCACCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAATTTCGGCGAGCCGTAGG
GTGGGCTGTAAGGTCGGCGTCCAGCCCGAAATGTTTGCGGTTGCCCGCTTCGGCGCGGAC
TTCAAACAATGGCTTGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 336>:

GNMDS61TR gnm_336

CTTAGATCTCATACCATGTCATTGTGACTTACCCTCCAGGAAGCTTCCTCACTCTGAGAA
GGCCCCATTATTTGTTTTTTCCAAGATGCTGACTGGTAAATATTTCTAGGAAAAAAATAGA
AATGATTCTACTTTGTTTGTCTATAAATTCATCGTCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 337>:

GNMDV66R gnm_337

CTTCAGGGTACTTTGAATTTTTTTCAATATATCTGCCATATGTTTTTGTTAGCCGAATT
TTTAGGAATACCAACCAACGCCAGGAGTATAAAAATGATTGAACTTCAACTTCATGAATT
GAAGCTGGTTTCAGGGGGAGGTCCTGTAACAGACAATATAGCTGGAAATGTAGCTAATGC
TGCCACAACCAAAGGAGGTCCCACATGGGGGGATTTGGTTGCAATACCTGCTGCCGCAGC
GGCAGTTTATTATCTGCCGAAAAATGCTTACGGTGCTGCTGGTGCAAATGGTGTATACAA
TGTGACTCGTAATTGGGTAAATGATGCCGTTAATGCACCTCCTTATAACGGAAGACCAAT
CTTTGAGATTGAACATGGATTAACTGCTCCCGCAACAAAAGCAGATAAATCAGGGAACGG
CTACACTGACGGTACAGATTACTGCTGATATTTCTCATCGTCCAGACAATCTCTAGGGGT
CGTCTGAAACTTTCTTAACTTCAATTTTATGAATAGACCCAAGCAACCCTTCTTCCGTCC
CGAAGTCGCCGTTGCCCGCCAAACCAGCCTTTTTTTTTTTTTTTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 338>:

GNMDW68F gnm_338

CCGCCGGATTTTCTCCTCTTTTAATATAGTAAAATTCATGACCCCTATGGGATTTTCAGG
AATATGTCTTTTATCTTCATAAGCCTCGTATTCAGGATAGGCAGATGGCATTTTTTTAAC
CCCGTAAGTGAGCAATCTTTCTCCCATAGTCGTGCTTAAACTACACGCATCTTTTCGGAT
AACAATATCGTCCACGCTATCCAAACCGTCGCGTAGAAATTGGATAAAGTGCGCTTTGTT
TTGCTGGATGTATGGCTCGAGCACCCAGCCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 339>:

GNMDZ09R gnm_339

TGGAGTACCCGCAGAAGAAATCTGGGCATTGCCATTTCAACATATCGCCGCCGGCTTTCG
CGCTATACCACATAAAGGGCAGGGACGCGGCAAGCAGCCAGTGGAAAAGGCGGGTGGGGA
TGTCCCAGACTTTGGTTTTGTTTTTCATAATCGGTTTCCGGCGGTAGAATCGGTTTGTTT
TCGAGCCTTATTTTAACCGATTGGAGGGGCAATGTTTCCCGTTTTTCATCTTTCATGCGA
GAGCCGCCGCCAGATGCTTCAGACGGCATTGCGTTTTCCCCATGTGTTCAAAGCCCGTGC
GGAAGATTCGGACATAGGGACTTTCGGCACGCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 340>:

GNMEB54TFB gnm_340

CCTGCCCGGTGCTGGAAGGTTAATTGAAGATGTGAGAGCATCGGATCGAAGCCCCAGTAA
ACGGCGGCCGTAACTATAACGGTCCTAAGGTAACGAAATTCCTTGTCGGGTAAGTTCCGA
CCCGCACGAATGGCGTAACGATGGCCACACTGTCTCCTCCTGAGACTCAGCGAAGTTGAA
GTGGTTGTGAAGATGCAGTCTACCCGCTGCTAGACGGCAAGACCCCGTGAACCTTTACTG
TAGCTTTGCATTGGACTTTGAAGTCACTTGTGTACAGATACGTGGGAGGCTTAGAAGCAG
AGACACCAGTCTCTGTGGAGCCGTCCTTGAAATACCACCCTGGTGTCTTTGAGGTTCTAA
CCCAGACCCGTCATCCGGGTCGGGGACAGTGCAAGGTAGGCATTTTGACTGGGGCGGTCT
CCTCTCAAAGCGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 341>:

gnm_341

CTCGGTACCCGAGCATTACGAATTCGAGCTCGGTACCCTGCGACAGGGCGGCAATCAGGC
GGTTGCGGCGCGGAAAATTGCCGGCATACGGCCGCGTGCCGATGGGGAACTCGCTGACAA
TCAATCCTTTTTCGGCGATTTCATAGGCAAGGTTTTTGTTGACCGGCGGATAAATGCGGT
CTATGCCCGTCCCCCACACGGCGATGGTGCCGCCTTCTGCCTGCAACGCACCCTGATGGG
CGGCGGTATCGATGCCCGAAGCCATACCCGACACAACGGGAATGCCTTTCCCACCCAACG
ACTTGCCGAAATCTTTGGCAATCCGCATCGCCTGCGGCGTGGCATGACGGCTGCCGACGA
TGGCGGCGGAAGGTTTGTGCAGCAGTTGCACGTTGCCGCGCAAAAACAAAACCGGTGGCG
CGGTCAGCCCCTGCGTCAGCATTTCGGGAAAATCTTCATCCTGAAGCAGCATCAGGCGGC
ATCCGTCaCGCATTTCnCATTCCAATGCCGCTTCTGCCGCCTGCCGCGCCAGAGCGCGTT
TTTCCGCATTGCGCCAAGCCTCAAGCGCCTGTTTGTGCCGTATCAGTGCCGCCAACTGTT
CCGCCGGTGCGGACAAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 342>:

gnm_342

AAAATCAGAAAAGCCTTGGCGGGCTTTTGGAAGGCACTGCCCCACCTTAACGACACCATG
CTGCTGTTTACGGGATTGTGGCTGATGAAAATTACCCATTTCTCCCCGTTCAACGCGCCT
TGGCTCGGTACAAAAATCCTGCTTCTGCTCGCCTATATCGCATTGGGTATGATGATGATG
CGCGCCCGTCCGCGTTCGACCAAGTTCTACACCGTTTACCTGCTCGCCATGTGTTGCGTC
GCCTGCATCGTTTACCTTGCCAAAACCAAAGTCCTGCCTTTCTGAAACACCGTTATGAAC
AACAGACATTTTGCCGTCATCGCCCTGGGCAGTAATCTTGAAAACCCTGCCCAACAGGTA
CGCGCCGCATTGGACACGCTGTCGTCCCATCCTGACATCCGTCTTAAACAGGCTTCCTCA
CTGTATATGACCGCGCCCGTCGGTTACGACAATCAGCCCGATTTTGTCAATGCCGTCTGC
ACCGTTTCCACCACTCTGGACGGCATTGCCCTGCTTGCCGAACTCAACCGTATCGAGGCT
GATTTCGGACGCGAACGCAGCTTCCGCAACGCGCCGCGCACATTGGATTTGGACATTATC
GACTTTGACGGCATCTCCAGCGACGACACCCGACTCACCCTGCCGCATCCGCGCGCGCAC
GAACGCAGTTTCGTCATCCGCCCTTTGGCAGAAATCCTCCCTGATTTTGTTTTAGGAAAA
CACGGAAAGGTTGCCGAATTGTCAAAACGGCTGGGCAATCAAGGTATCCGTCTTTTACCG
GACAGGTAATTCCGCACGCGGATGCCGTCTGAAAGCCTTTCAGACGGCATTTTTCCTTTG
CCGCCAACACGCGTGCAAAAAAATCGCCCCTTGGAAAAGGGGGCGCAAAAGGAACACAAA
CCACTACCAAAACTTTAAATCTGAAACACTGCCTGCCGCATACTGTATCCGACAGGATAT
AAAGCCCTCACTAAATCGTTTCGAGAAATCCAAACTTCTTCATCGCCGACAGAAAATCTG
CCTTTCTCCGGTACCAGCTCCAACAGAAACGGTTGAACCGCCGTATGCAGCCTGTCCTTA
CACCGCCCCAGCTTTCTGGACAACGCGGACAGGGCGCGTTTGTAGGCATTATCCTTGCAG
TCAAGCTCCCGCGCACTGCCGACCCAGCTCAAACGAAGGTTGCGGCTTTCATCCTCAATC
AGCAAAATGCCTGTTTTGACTTCCCCCACCTCGGGCTCGCATGAAAGCGCAATATAATAT
TTGCCGTCGATGTTGACATACGCCGCTTCATGCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 343>:

GNMED25TR gnm_343

TAAGTTTCCGTACCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAGCTATCCTT
TTGGCCGAAGGTCAAAAATCAGCCGTCACAGAGTATTACCTGAATCACGGCGAATGGCCC
GGCAACAACACTTCTGCCGCCTGGGAACCTCCTCAACAATCCAAGGGAAATATGTTAAAG
GAATTACAATCCCAAACGGGGTCAATAACGGCAAAATGCCTTCAAGCCGGGTTAACAAAG
AAATCCAAGGGAAAAAACTCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 344>:

GNMEE40TR gnm_344

AGTGCTTGTGTTGTTTGCACCGGTTGCTTTCGGATAATCGTGGGTAATGCGTTCGGCGGC
ATAAGCTAAATCCGCCTGCACATAATACGGGCTGCGGCTGCCGTCTTCACTTGCCGCCTG
CGCTGCGGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAA
GAGAAGAGAAGAGAAGAGAAGGTTTTTTGGGGGCTGGATTCATTTTCGGCTCCGTATTCG
GTTTTAACTGATTAAAAAGAAAGATTTTCAATGATGTTGCAGGAGCGGACTATATCACGT
TTGTGGCGATGTTTCAACACAATATAGCGGATGAACAAAAAAGAGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 345>:

gnm_345

ACGGGACCTTTGATGCTGATGCTGCTGGTCGGCACGGGTATTTTGCTGACTGTTTTATTA
AAAGGTTTGCAGTTCACGATGTTGGGTTATGCGCTGAAACAGGCGTTTATGCCGCCAAAG
AAGCATAAAAGCGGCGAAGGCCACGAAGGCGATATTTCCCATTTTGCGGCGTTGATGACC
GCGCTGTCCGCCACCATCGGCACGGGTAACATCGCCGGCGTGGCGACTGCGGTGGTAACC
GGCGGCCCGGGCGCGGTATTTTGGATGTGGATGACCGCCATTTTCGGCATGGCCACCAAA
TACGGCGAAGGCGTGTTGGCGGTGAAATACCGCGTCAACAATTCCAAAGGCGAAATGTCC
GGCGGCCCGATGTATTACATCGAAAAAGGCTTGGGCAAAAACTGGAAATGGATGGCCGTC
GCGTTTGCGCTGTTCGGCACATTCGCTTCCTTCGGTATCGGCAGCTCGGTGCAGTCCAAC
TCGGTTGCACAGGCGGTGCAAACCAGCTTCGGTATCGAACCTGCCTATACCGGCATTACG
TTGACCGTTCTGACTGCCGTTGTCGTTTTAGGTGGTATTAAAGGCATCGCCAAAGCCGCT
TCTTTCATCGTGCCTGCTATGGCGGTGTTTTATGTGTTGGGCGGTCTTTCCATTATCGCG
ATTAATTCCGATGCACTGATGCCTGCCGTCAAGCTGATTTTCTCCGATGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 346>:

GNMEG32TF gnm_346

AAAACGGTAAAATCAATTCATACTTGAATACGTTCTGCGCCTGCCGGCTGGGAACAGGCG
CACGGATAATGCTTTGCCGAGTGCGTTTTTAATAAACAATTCCGTTTTAAAGTAAACCGT
TTCATGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 347>:

GNMEI01TR gnm_347

TACCCGGTTCTTAAAGTTGAAAACGTCTCATTCAGATATGCTGATAATGAGCCATATCTT
TTTGAACACATTAATTTGGAATTTAGAGATAATGAAGCAGTTGTTTTAACAGGACAATCT
GGTCGGGGGAAGTCCACTTTGTTAAACATTTTAACAGGTAGCCTAAAACCTGAAACTGGT
ACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGATTG
AGCGGGATTGTTCGCCAAGATGATGTCCTTTTTGCAGGTTCTATTGGGGAAAATATTTCA
TTTTTTGATGAAAGCCCACATATGGAGCTCATTGAACAATGTGCACACGTGGTACACATA
CATGATCCATATACTTAACATGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 348>:

gnm_348

AAAAGTTGATAAATGGTAGTAGCATATGGTCTCATAATTTCAAGCTTAGAAATTAGTTAA
AGAATAGGGGCTGTCCTAGATAACTAGCGAAATTCAAATTAAGTTAGAATTATCCnTATG
AGAAAAAGTCGTCTAAGCCAGTATAAACAAAATAAACTCATTGAGCTATTTGTCACAGGT
GTAACTGCAAGAACGGCAGCAGAGTTAGTAGGCGTTAATAAAAATACCGCAGCGTATTAT
TTTCATCGTTTACGATTACTTATGTATCAAAACAGTCCGCATTTGGAAATGTTTGATGGC
GAAGTAGAAGCAGATGAAAGTTATTTTGGCGGACAACGCAAAGGCAAACGCGTTCGCGGT
GCTGCCGGTAAAGTCGCCGTATTCGGTCTTTTGAAGCGAAATGGTAAGGTTTATACGGTT
ACAGTACCGAATACTCAAACCGCTACTTTATTTCCTATTATCCGTGAACAAGTGAAACCT
GACAGCATTTTTTATACGGATTGTTATCGTAGCTATGATGTATTAGATGTGCGCGAATTT
AGCCATTTTAGCTTCGCTGAAACTTCGTTTTCGTATCAATCACAGCACACATTTTGCCGA
ACGACAAAACCATATTAATGGAATTGAGAACTTTTGGAATCAGGCAAAACGTCATTTACG
CAAGTTTAACGGCATTCCCAAAGCGCATTTTGAGCTGTATTTAAAGGAGTGCGAATGGCG
TTTTAACAACAGTGAGATAAAAGTTCTTGTTCCATTTTAAAACAATTAGTAAAATCAAGT
TTGTCCTAGTTATCTAGGACAGCCCCTTGTTTTTTGTTCGGCGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 349>:

gnm_349

CACATCCGTGCCTGTGTCATTGTCAAAAAATACCGTAAATAGATTGTATATCCTTTTTATC
AACATCATCCTCACTCAAATCACTGCCCGATACCGACAGATAACCACGCGTTTGTCTTTC
AGTTTGGAAACGGCGGGCGCGGAGGTAATCGGCTTATCCAGCGTGCCTTTAAAAATAGTA
CGTACAGACCATTTGGTCGGATCGTTGTTGCTCAAATCAAAGCGGTACATATTCCCGCCG
CGGTCGCCGGCATAGGCGATATCGACCGTGCCGTCCAAATCTTTATCCACCAACGTGGGG
GACGAAAGCCCGCCCTTGCCGTCGGGTACGTTGATTGTTGCAATCGGCGTACCGTTGTTG
TTTTCCAAATCATACACATACAGCGCGGTTTTATTCTCGCCGTTGTTAATGTCTTTAGTC
GCATAACCGGAGGCGATGAAGGCGGCGTATTTGCCGTTGTGGGTTTTGCCGATTTGCGGC
GTACCGACGGTGTAGCCTAATTTCACGCCATTGTCGTTTTTGACATCAAACATGGAAACG
CCGGCCGGGTTGCTGTTGTCGATTTTGCTTAAATCCAAGGCGTATGCGCCTCTGCCGCCA
AAGCCCATTGCGCCGAACATAAAGAAGTGTTTTTGCTTGTCTTGGTCATCTGTAATGCGG
CGCAAGACAAAGCCGCCGTCCACGCCATAGCGGTCGCCCACATAGCCTTTTTCGGCAAAG
GTGCGCAGCTCTTTGGCAAGGGTGGATTCGGTGTTTTGAATATCCTTGCGCGGCATCGTG
CCCTTTCAGACGGCAGCAGCTTTTGGATTACCGGCGAAGACGCGCGTGCCGACGTACAGG
TTTTGCGTGCCGAAAGCTGCGCGGTGCTGACCGGCATCGGCACGGTGTTGGCGGACAATC
CCCGGCTCAACGTCCGCGCTTTTCCAACTTTGCGCCAACCCGCACGCATCGTTTTAGACA
GCCGCCTGCGCCTGCCCCCGAACAGCCATTTGGTTACCGACGGACAATCTCCGACCTACA
TCGCCACACTCGAACGCAACGAAGACAGACTGCACCCCTATCGGGAACACGCACACGTCC
GCATCCTGATGCCGTCTGAAACGGCAGACAGCAAAATCGACCTGCACCACCTGATGCGCC
TCCTTGCTGACGAAGGTTTCGGCGAAATCATGGTCGAAGCAGGCTCCGAACTCACATCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 350>:

gnm_350

TCAAGGCATTTTTTTTCGATTTTGATAGTCTGCAACTTGAAACAAAACCTACAATATTGT
CAATATCGGCAATTCCCCCATCAAAATCCGCCAAATCAAAAATATAAAAAGGGATGTCCT
CGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTGAATTCATTTAAATCAATAG
ACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCACTATCCTCTTTTATGATTT
TCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAGTTACCCGCTTTATATCAAA
AATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTTGACTGTTTAAAGCGGGGGC
AGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAATTTCAGGATGTTTCTCTAAA
GCTTTTAATGCTTTTTCTTTTGAAATAGGCGGATCATAGACATCTATCCCCCTTAAGAAG

GCAATGCCGGTCAAGGCATTTTTTTTGGATTTTGATAGTCTGCAACTTGAAACAAAACCT
ACAATATTGTCAATATCGGCAATTCCCCaTCAAAATCCGCCAAATCAAAAATATAAAAAG
GGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTGAATTCATTTA
AATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCACTATCCTCTT
TTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAGTTACCCGCTT
TATATCAAAAATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTTGACTGTTTAA
AGCGGGGGCAGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAATTTCAGGATGT
TTCTCTAAGGCTTTTAATGCTTTTTCTTTTGAAATAGGCGGATCATAGACATCTATCCCC
CTTAAGAAGGCAATGCCGGTCAAGGCATTTTTTTTCGATTTTGATAGTCTGCAACTTGAA
ACAAAACCTACAATATTGTCAATATCGGCAATTCCCCATCAAAATCCGCCAAATCAAAA
ATATAAAAAGGGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTG
AATTCATTTAAATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCA
CTATCCTCTTTTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAG
TTACCCGCTTTATATCAAAAATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTT
GACTGTTTAAAGCGGGGGCAGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 351>:

GNMEI43TR gnm_351

TACCCTCAGGATTGGCATATTGATCCCGATAACCATTTCTCCAACAACCCCGACTTTGTG
GACTCCTGGCCGCCACATGGGGTTGTTGGCACCGACGAAGCTGAGATTCATCCGGCGATC
GCTAAGATTCCTGTCGACGCACGGGTTAAGAAAGGCCAATACGCTGCAGCCTATTCCGGG
TCAATTTATTAAGCTTCCTATCAACCTCCCATCTCGGTTTCGCATCAAACACAGGCTTAG
CCTTAGGTATACCGCCCCCCGATTTACCCACACTGAACAAATCTATAGAGAACTGAACAT
ATTCCGCAGCCTGCTCCGACAGCCCCAACTGCTTCAAGGCCTGAACCGCAATCGTCGGTC
GTTGCTCGCTGGCTTTTTTTCCGAAGTTTTTCGTCCCAGTAATGACATGATCGTAGGAAG
ACGTTACACCAACCAAAGCGGCGGCACAGCCTAAGCCGAAAGTCTCGGCACAAGATCCGC
CTCCGGCTACTCCTGAAAGAACAACCCCCAAACTGCCCGAAACGATTTCAGCCCCGGGTG
AGATGTAGCGGTGCAGGATACTTTTGTCTTCCCTATCCAGCTTTTCGTATTCAGCCTTCA
AATAAGAGGCTACTAAATCAGGATGTTTAGTTAGGTAATATAAGGATTCCTTTTTTAAGT
CCTTAAACCTACTGTCAAAGCGTTTGTCCTGGGTAAATTCGATAATGCGTCCTATATTTT
GACGACATTCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 352>:

GNMEI51TR gnm_352

TCAATACAGTTTCAAAATGGAAAATGATACGTTCACTTTGGATTTTAGTGGTCTTGTTCA
AGCATTTAACCATGTCACAGAAGCTAATCCGCAAAAAGCTTTTGTGGATTTGGCCGAGAT
GCTTGCATATGGCGAACTTCGTTCTTGGTATGAAGGCCGAAGACTAATGACCGATTATGT
GGAGGAGGCATCACAAGCAGGTAAATTTGAAGATTACCAGAAAGTGTTGGGTCAGGAGAC
CGTTGCATTATTAGCTAAAACATCGGGTACGCAAGCACATGATATCCTGCACAATGTATG
CTTTGGTCATAATAAAAATGTTTCTTTATATGGCAATCACAGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 353>:

GNMEJ36TF gnm_353

CCGCGCTTGAAACGTCCGCTTGCAGATACTACAGAAAGAGTGTTTCAAACCTGCTCTATG
AAAGGGAATGTTCAGTTCTGTGACTTGAATGCAAACATCACAAAGAAGTTCCTGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 354>:

GNMEJ53TR gnm_354

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 355>:

GNMEJ56TR gnm_355

CAACAGTCGCACTACAAAAGCCACCGCGCGCCGTACCCGCCCTTGGTATAATGTGGACGT
GTCCGGTTATTACACGGTTAAGAAACACTTTACCCTCCGTGCGGGCGTGTACAACCTCCT
CAACTACCGCTATGTTACTTGGGAAAATGTGCGGCAAACTGCCGGCGGCGCACTCAACCA
ACACACATATGTCGGCGTTTACAACCGATATGCCGCCCCCGGTCGCAACTACACATTTAG
CTTGGCAATGAAGTTCTAAACGTCCAAACGCCGCAAATGCCGTCTGAAAG[illegible] TTCAGACG
GCATTTTTTACACAATCCCCGCCATTTTCCATCATCCCCGATACACCGTAATCTCGAAAC
CCGTCATTCCCGCGCACGCGGGAATCCAGTCCGTGCGGTTTCGGTTTTTTTGAAGTTTCG
GGTAACTTCTAAACCGTTATTCCCGCGAAAACAGCAGTCAAAAACAGAAACCTCAAGTCC
CGTTATTCCCGATCAGACGGGATCTACGGCGTAAAATCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 356>:

GNMEK63TR gnm_356

CGCCGCATCGGGCAATTTGCCTTTTTTCAGTCCGGCTTCGAGTTTGTCGGATGCAAGTTT
CAAGAGTCTGTCGTGTGTGTCGTTGTCCATAAAGGGCAGTTGTCCGGAGGTGGATTTTTG
TGCCAGTTCTTTAAAAAGGTTGCCGAAGCTGTTTTTGCGGTAACTGTTGCCGTTGAGGGC
GGGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 357>:

GNMEK86TFB gnm_357

TCGACTCTAGTAGATCCCGCGATGGCCCTTCCATACAGAACCACCGGATCACTATGTCCT
GCTTTCGCACCTGCTCGACTTGTCGGTCTCGCAGTTAAGCTACCTTTTGCCATTGCACTA
TCAGTCCGATTTCCGACCGGACCTAGGTAACCTTCGAACTCCTCCGTTACGCTTTGGGAG
GAGACCGCCCCAGTCAAACTGCCTACCATGCACGGTCCCCGACCCGGATGACGGGTCTGG
GTTAGAACCTCAAAGACACCAGGGTGGTATTTCAAGGACGGCTCCACAGAGACTGGCGTC
TCTGCTTCTAAGCCTCCCACCTATCCTACACAAGTGACTTCAAAGTCCAATGCAAAGCTA
CAGTAAAGGTTCACGGGGTCTTTCCGTCTAGCAGCGGGTAGATTGCATCTTCACAACCAC
TTCAACTTCGCTGAGTCTCAGGAGGAGACAGTGTGGCCATCGTTACGCCATTCGTGCGGG
TCGGAACTTACCCGACAAGGAATTTCGCTACCTTAGGACCGTTATAGTTACGGCCGCCGT
TTACTGGGGCTTCGATCCGATGCTCTCAAATCTTCAATTAACCTTCCAGCACCGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 358>:

gnm_358

GCGGCAATGCCGTCTGGAAAAGCGGATACCGCCCTGCTGTTGTACGGGTGCGGCTTCTAT
TTGCGCCGTTGCGGCAACTTTGGCAACTTTGGCAACTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 359>:

GNMEL61R gnm_359

CCCGCAAGTGGCGAGGGGGCAAGCAAAGAGCCGAAAGACAGGGGGGACCGCAGACAGGGG
CGAAAGCAGGAGCGGGGAGGGCAGAAGCCAGGGGGGCGGCAACAACGGAAGCCGCAGGGG
GGAAGGAACGGGGGCAGCAGCGGCCGGGGAGCGAAACCGGCAGGGGCAGGGGCAAAAGAA
GCCGGAGAGGAAGACGGGGAGCAGGGCAGAAAAAGAGCAGCAGAAGACAGAGCGGCCGAA
GCAGAGACAACGGGGGTGAGTGTGGGACGGACCCAAAACCCGGGGGGCGCTGGGGCGACG
AGACGGAAAGGCAGAAGAGGGCCAACCGAAGCAAAAGCACGGGAAACAGCAGCCAGCAAA
GCCGGCGGCGCGAGGGGGGGGGCCAAGGCCGGACAAGCTCGGAAAGAGAGCCAAAGACAC
AGCGGCAAAGAGAAAAAAAGGAGGAGGGAGAAGCGGGGGGGCCAGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 360>:

GNMEN01TR gnm_360

CCAATGCAGGATCCGAGCCGAGTATGCAACCTACACCACAGCTGGCGGATTTGCACAAAT
TGAACCTTGTGATGCTGGGTGATGAAGCGCACCATTTAAACGCGCAAACCAAAGGCAAAA
AACAAGGCGAATTAGATTTAGAAAAGGAAATGAACGACCGCACCAGCAATGCCGAAATTG
AACGTAAAGGCTGGGAGCATATGGTTTTGGAATTGTTACTCAATAAAAATGGCAATCATA
GCCAAAATGTGCTGTTGGAATTTACCGCCACGCTGCCTGAAAATGCCGATGTACAACAAA
AATACGCTGATAAAATCATCACAAAATTTGGCTTAAAAGAATTTTTGCAAAAAGGTTATA
CCAAAGAAATCAATTTGGTATCCAGTACGCTGGGTAAGAAAGAGCGAGTGTTACACGCTT
TATTGTTTGCTTGGTATCGACATCGAATTGCGTTGAAATATGGCATTGCCAATTTCAAGC
CTGTGATGTTGTTTAGAAGTAAGACGATTGATGAATCAAAAGCGGATTATCTGGCATTTT
TAAATTGGGCAGAAAATGTGCAGGCGGTTGATTTTTCGTTTTTAACTACATTTTCAACAA
GCTTGAACGATAGCGATAGCGATAACGCCAACGAACAAGGCAAAACCCGCACTGAACAAG
CCCTAAAATTTATGCAGGAAAAAGGCGTTGAGTTTGCACATTTGGCAGATTGGGTAAAAC
AGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 361>:

GNMEP25TE72 gnm_361

TTCGGACATTCCTTAAATTACCCGTGTATCGCTGTAAATCTTAGAGATGGCGGAATATAG
CGGATTAACACAAGGCATTACTGCAATGCTCAGGATTCCGGTACAGGGTCATCGTTGCAC
ATTTAGCCAAACGGCCGTGACCGATTTCACGGCGTTTCGGTGCGCCCATGCGGCCCACTT
CGCCGGTAGAGTACGGCGGAAAGTTGTAGTGCAGCATAAAGCGGTCGGTGTATTCGCCGG
ACAGCGCGTCGATGATTTGCTCGTCGCGCGAAGTACCCAAAGTTGCAACGGCCAAAGCTT
GGGTTTCGCCACGGGTAAACAATGCAGAACCGTGCGTGCGCGGCAATACGCTGGTTTGGA
TGTTCAGCGGACGGACGGTGCGGGTGTCGCGGCCGTCGATGCGCGGTTGGCCATCCAAAA
TTTGGCTGCGGACGACATCGGCTTCCAAGTGTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 362>:

gnm_362

GCATTGTCTTGTTGCCCTTACTTTTAGCATCTTGTATCGGCGGCAATTTCGGCGTGCAGC
CTGTTGTCGAATCAACGCCGACCGCGTACCCCGTCACCTTCAAATCTAAGGACGTTCCCA
CTCCGCCCCCTGCCGGGTCTTCGGTAGAAACCACGCCGGTCAACCGGCCCGCCGTCGGTG
CGGCAATGCGGCTGCCAAGGCGGAATATTGCTTCCTATAAACAAGACGGTACGGAAATTC
CCGACAAGCATCAGGCAGAGGAGCATCTGCCGCTTAAAGAGAAGGATATCCTGTTTTTAG
ACGGTACGCTGAAAGAACAGGCTGACAAACTTAAAAAGAAAATCAACGAACGGTATTCTG
ATGTGAGGGTTATCACATCGAAAAAAGAAGAAGAAAAAATATCAATATCAATTTGTCCGTG
CGGGCTATGTGTTTACCAGGGCGGAAGGAAAGGATAATGAAAAAGAAAAGACTTCTGATG
GTAAGGAGTTTGTTAACCGATTTAGTTATGACGGTTTTGTATATTATTCCGGAGAACGTC
CTTCCCAATCTTTACCGAGCGCGGGAACGGTGCAATATTCCGGTAACTGGCAATATATGA
CCGATGCCAAACGTCATCGGACAnGTAAGGCGGTTTyCAGTACGGATTTGGGTTATACCA
CATATTATGGtAATGAAATTGGGGCAACTTCTTATGAGGCTAGGGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 363>:

GNMEP68TB22A gnm_363

ACATGGCATTCGGACTTCATGCGTTCGTGCGCGGCTTCGGCTTTTCAGACGGCATATTTG
ACGTTATGATTAAACAGTTAACAAGATTTATCACAACGCCGTCAAGAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 364>:

GNMEP74TR gnm_364

ACTTCAGCCTCCCAAGTAACTGGCATTACAGGCATGCGCCACCATGCCCAGGTAATTTTT
TTTTTTTGTATTTTTAGTAGAGACGGGGTTTTGCCATATTGTCCAGGCTACTCTTGAACT
CCTGCCCTCAAGTGATCCGCTTACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAG
CCACCATGCCCAGCCATCCTTGTTATTCAACCCTACCACACTTTAAAATCTCTGACAGGG
AGTAAGTATGCAAAACGCTCCCATCCGGTCAGGCGCAGTTCTGCCACGAGGTCAAGATAA
GCAGGCAGTTCGCTGCGGGTGCCGGAGAAGAAGACAAATGGCGGCCGCACCATTGCCATC
AGGCGCAGAAACTCTACCATGCCGAAGTAGTTCATCGCGTnCCCTTTTCCCCGGCGGCGC
GGCTTTGGTTTGAACGCGCGTCGTGCTGCCTGCCTTTCAGTTCGCTGATATACGCCTGCC
GGCAGTGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 365>:

gnm_365

CCTGCAGTTTCTCGATATAGCCTTCTGCATCGGTACGGGTATGTAGGTTGTAACCGGGTT
TGTAGAGGCCGTTTTTCTTTATCCAACGGGCATCGCTGTCCTTACTCGGTGTGGTTTGAC
CGCTGATTTGTCCTTCTTCGTCAACTTCTATGGCCTGACGCTGTTTGCTGCCGGCGGTCT
GAATAATGGTGGCGTCAACGACGGCAGCGGATGCTTTCTCTATTTTTAAACCTTTTTCGG
TCAGTTGGCGGTTAATCAGTTCCAACAGTTCAGACAGGGTATTGTCTTGCGCCACCGGTT
GCGGTACGGCATAAGGTGCTGTAATCGGGGATGCTCAGTTCGTCAAAACGGCAAAAACAGG
TTGAAATCGATGCGGGTAATGAGGCTGTGTTCGAGTTCGGGATCGGAGAGGCTGTGCCAT
TGTCCGAGCAGGACGGCTTTGAACATGGACAGCAGGGGATAGGCAGGACGGCCGCGGTGG
TCTCTAAGGTAACGGGTTTTTTGACGGTTCAGGTATTGTTCGATCAGCTGCCAATCAATC
ACCCGGTCCAACTTCAATAGCGGGAArCGGTCGATGTGTTTGGCAATCATGGCTTGGGCG
GTTTGyTGgAaAGGTGCTCTTGAGAAATCCCCTAAATGTCTTGGTGGAATTTAGGGGAT
TTTGGGGAATTTTGCAAAGGTCTCTAGATGAGTGAAAAAGAAGTGCAGGCTGCCTAAAAA

GACAGAAAAAGTCTTTCCGGCAGCCTGCACTTTGGTTTCATTTCAGTCAGTAAACCCAGT
AAACGACGGTCTGAAAACGCAGAACGTTACGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 366>:

GNMEQ90R gnm_366

GCTTTGCCGTCAAGCGCGCCGCCAGTTGATTTGGTTGCGCGCGTGGTTTGGGAGAAGCTT
GCGGAATACGCGCCAATACGTCGCCTTTACCGATTTCCTGACCTTCGCGTACGGTAATCA
CCGCACCAACGGGGAATGCCATGGATACCGGAGTAGAAGTACCGGGAATACAGATTTCCA
CGCCGTTTTCGTCCAAGAGTTTCACAGTCGGACGCAGCAGTGTCGTCTTCTTGAGAGGAA
CGACGTTTACCGTCAATCACCACCAAAGTGGACAAACCGGTTACATCATCGGTTTGTTTG
GCAACGGTAACGCCCTCTTCCACGTTTTCGAATTTCACCATACCTGCGTGTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 367>:

GNMEQ91R gnm_367

CAAAAGTTTTTCAAATGAAACGGTTGCGGCATCGGGCGGTGTCGACGTTGATTTGGTTCC
CGTGTGGTAGGGGAGGAAGCGGCTTCCTTCAAACCTGCCTTTGATTGCTGTTGTGCGCGC
GGTGATGGGGAATCGGGAGAGGTCGGCGGTATGTGTGCCGCCGGTATTGTCGATTGTGCC
GCTGTTTTTTCCCGTCTGCCTGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAAG
CATGGGGACGGAGATAAAATCGTCGGGAATACCGTAGATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 368>:

GNMEQ92R gnm_368

GAAACGGTTGCGGCATCGGGCGGTGTCCATTTGTATCCGCCGTCCTTCGGGGGCGCGGTT
GATGTTGACGCAGATTCCGCTGCGTTTGACCGATGATGTTCGCGCGGTGATGGGGAATCG
GGAGAGGTCGGCGGTATGTGTGCCGCCGGTATTGTCGATTGTGCCGCTGTTTTTTCCCGT
CTGCCTGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAGGCATGGGGACGGAGAT
AAAATCGTCGGGAATACCGTAAATCGGGAAGCGGGCTTGTGCCGTCCGCCTGTCGTCGCC
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 369>:

gnm_369

CATCGGGCGGTGTCCATTTGTATCCGCCGTCCTTCGGGGGCGCGGTTGATGTTGACGCAG
ATTCCGCTGTGTTTGCCCATTATGTTCGGCTGCGGGATAAGCAACATTTATGAGCGGCTA
AAAATGGGACGCCGGTATTCTCGATTGTACCGCTGTTTTTTCCCGTCTGCCTGATGCGGA
CAAGGGCTTTTCCGCTCCGCAAACCGGCAAGCAGGGGGACGGAGATAAAATCGTCGGGAA
TACCGTAAATCGGGAAGCGGGCTTGTGCCGTCCGCCTGTCGTCGCCCTTCAGCACCGGTT
CGTAATAGCCGGTAACCGTACCGTCAAGGCTTCCGTTGCCTGCAACCTGCCACGGCGTGA
AATAGCGTTCAAAAAACTGTTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 370>:

GNMER68TR gnm_370

CACTGTGCCGCCGCTTTGCCCGTCGGTGCGGCAAGCGCGATGTTGGGAAGATTTTCGTCT
TCACCGCAAATCAGCGCCAGCAGTTTGGCAACCGTTGTCGTTTTGCCCGTTCCCGGCCCG
CCGGTAATCACCATAAAAGACTGCAACAGTGCCAAGGCGGCGGCATCGCGCTGCCCTTCG
CTGCCCGTGCCTTGAAACCATTTTGCGAGGTTTTGCCTCGCGCCTGCCGCGTCGGGGGCG
GATGTGCCGGCTGCCGCCAAGCGTTTTATCTCGGCAGCCAAATCGTATTCCAACTGCCAC
ATCCTGCCCAAAAACAGCCTTCTGCCTTCCAnAATCAAAGGCGCGGCGGATGTTCCGACA
ACnGGTGCGAGTGCCGACAGCGCGTCAGCCTCGCCACCGCTCAAACGGATATTGAACTTT
TCTCCACTGCGGTCTACGCCTGCGACTGTGATAATGCCTTTTTGAGCGTCTTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 371>:

GNMER69TR gnm_371

CAGGCAGGTTCGGTCGGTTGCAGCCACTTCAACGACTCCGGCTTCTGGCTGGTCGGCCGT
CTCTTGGACATGGACGTACCGACCACGCTGAAAACCTGGACGGTCAACCAAACCCTCATC
GCACTCATCGGCTTTGCCTTGTCCGCACTGCTGTTCGCCATCGTCTGACAGACGGAAAGG
ATAGTAAATGACTACGCATTTTGTCGTTATGGGCGTATGCGGCTGCGGCAAGACCACCGC
CGCGCTGTCCCTGCAGAAACACCTCGGTCAATGTCCCTATGCCGAAGGCGACGAGTTCCA
CACCCAAGCCAACCGCGACAAGATGGGCGCGGGTATTCCGCTGACCGATGAAGACCGCTA
TCCGTGGTTGGGCAATCTGCGCGACTGGATGACGCAACAGGCGCAAAACGGTGCGAACCA
CACCATCGTAACCTGTTCCGCCCGTACGAATGACCGTTTTTGCAATGCCTGAAACAGGCG
TTCGGTGCAGTTTGCAAGCACTTCGTCGCCGGAACCCGCATAGTGTTCCAGAAAACGGAT
TGCCGCCCTTGCCGCCGCTTGGGCAAATTCATCTGTCTGCCGTTCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 372>:

GNMER70TR gnm_372

ACTGGAAAGTGCGCATCGAAGATGCCATTGCCGCCGACGAAGTGTTCGTTACGCTGATGG
GCGACGAGGTCGAGCCGCGCCGTAGCCTTTATCGAACAACAACGCGCTGATTGCCCAAAA
TATCGACGCATAAGTGCCGTTTTAAAAAAGGAGACGGGCATCGTGCCGCGTCTCCTTTTT
GGTTGGTCAAACGGAACCTGTGCCGTCTGAAAAACCGTCGGAGCAAAATATGATCAGCAT
TTTCGATATTTTCAAAATCGGTATCGGGCCTTCCAGTTCGCATACGGTCGGCCCGATGAA
GGCAGCCGCCGCCTTTGCGGCAGGTTTGGATGCACAGGCTGTTCGCATCGTCATCGACAT
TTACGGCTCGCTCGCACTGACCGGATACGGACACGGTACATTTGACGCGCTGACAAACGC
GGCTACCGCGACATTCTGCGCGGAGCCGAAGGCAAAGCTGCCTTCATCCACCTCAGTCCG
CCGCAAGACATCAACCTCGAGCGCATGATGTCGCGCAGAGGACATTACATGAAAGCAGGG
ATGCTCGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 373>:

GNMER71TR gnm_373

CGGCATGCGGATTGAACATGATGATGTCGCGGTCTTTAAACGTACCTGGTTCGCCTTCGT
CGGTGTTGCAAACCACATATTTTTCGCCCGGGAAAGAACGGGGCATAAAGCTCCATTTCA
AACCGGTCGGGAAGCCCGCACCGCCGCGCCCGCGCAAACCGGAGGTTTTGACTTCGTCAA
TCACATCGGTTTGCGAGATGTTTTCGGACAGAATTTTACGCAGGGCGGTATAGCCGCCGC
GTTTGACGTATTCGTCCAATGTCCAGCAATCGGGATTGGCGGTATCCACTTGGTCAAAAA
TCACGCCTGATTGGTAAATAGCCATTTTTGGTGTGCCTGTTTGTTTTCGTATCGGTTGCG
GTCGCTGTTTCAGACGACCTTAAGATGTCTTTGTGTACCGGCTTGTAACGTCGTCTGAAA

TAAAATCTAGTTTATCAAATCGCTCGGTTTGGAAGGCAGCCTGCCGCACGACATCCCGCT
TGCCGGCATTCCCGAACGCCTCGAACGCATCCGCACGCAGCACATCCTCCGGCTCAACGG
GCAAGAAATCGGCTTCATCCCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 374>:

GNMER72TR gnm_374

CGAAAGCGGGAATGCCGAATCCGTCCGCGCGGAAACCTGCATCCCGTCATTCCCGCGAAA
GAGGGAATCTAGAAACGCAAAGCTGCAAGAGTTTATCGGAAATGACCGAAACTCAACGAA
CCTGGATTCCCGCTTTCGCGGGAATGACGGGGGTTTGGCGGGAATGACGAGGGTTTGGGA
TTTCTGTTTTTGAATTTCTGTTTTTGTGAGAATGGCAAGATTTTCGGTTCTTGTATGGAT
AACGAGATTTTAGATGGCGGGAATTTGTCGGGAAAACAGCAATCTGAGACCTTTGCAAAA
ATAATCTGTTAACGAAATTTGACGCATAAAAATGCGCCAAAAAATTTTCAATTGCCTAAA
ACCTTCCTAATATTGAGCAAAAAGTAGGAGAAATCAGAAAAGTTTTGCACGATATTTTCA
GACGACCTTTAATCGTTTTTGTTGGATCTCGnACACTTGCTTGTCTGTCGTCATTCCCGC
CAnGCGGGAATCCATCCTCAATGGTAAGCAATGTCTTATTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 375>:

GNMER73TR gnm_375

CGGCAATACCGATAACGGTCAAATCCACATAACGGTTGTTGGCAAATGCTTGGCGCACCA
TCAAATGCGCCAGCGAGCCTTGTCCGAACAAATCGGCCGCCTCGGCATCGCTAAATAGTT
GCACCGGCTCTAAGGCGGGCTGTATGCCCGCGGTCAGCATGGGTGCAACCATCAATACCT
TTTGCGGATTTTGCGGCAAACCTTGTACGGCATTGCGGGTGTTAAATTCAATATACTGCC
CGGGCACGCGGATGCTGCCCGGAATCGTGTCAAAATCAATATGGGGCATCATTACTCTCC
CTTAGTATTGCGGGTTTTGGTATTTGGGGCGGCATCCTCAACCACCACCAAATCGCCGTC
ATCAATCATGCGGCGGTAATACAGGCTGTTGCCGTCCAACTCCACCGGCTCTTGGCCGAT
ATATTCGTGCGGGTTGTGTTTTTTGAAAATGAGATTGAGCATAAAATTTTAGTAACCTAT
GTTATTGCAAAGGTCTCAATCTTTACCGTCATTCCCACGAAAGTGGGAATCTAGAAACGC
AAAGTTGCAAGAATTTATCGGAAATGACCGAGACTCAACGAACCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 376>:

gnm_376

GGGCGTTGATTGCGATTGTAGGGTTTGTAGGCTGGAAAAGTTACGGCATTTTTAAAGTTT
ACAGCAwAGCCACAGACAGCCGGATTGAGCAGGAAGCGCAAAAAGAAAGCGTTGTGCAGA
CGATGACGGAGCAGCCTGCATCATCAGAGGAAATGCCTTTAAAAAATTCAGACAATTTGA
AACCTGAAGACTTTGTGCCGACTTTACCCGAAAAGCCCGAAAGCAAGCCTATTTATAACA
CAGTCCGACAAGTAAAAACCTTTGAGCAAATCGCCGGATGTATAGACGGCGGAAAATCAG
ATTGCACATGCTATTCAAATCAAGGAACACCCTTGAAAGAAATAACAAAGATAATGTGTA
AAGAATATGTGAAAAACGGGTTGCCTTTCAATCCTTATAAGGACGAACAGCAAAGGACGG
AACAGGTGGAACAGTCCGCGAAAGCGGACAAGCCGCAAGTTCTCGTAATGGGCGGAAAGC
CGTAGCAAAATCTCATGTACGACAACTGAAGAGCGCGGAAAACCGTTTGAAGGAATTGGC
GGCGGAGTCGTAAAGCAGAAAGTTCAATCCCTACCCCTCAGGATGGCTTGAGCTGAGTGA
AGGGGGTTAATTGCTAGAATGGCTGTTTTTTTTAAAGTGTCTCAGTCTGGAATCGCTTCG
TTCGGGGGTTGTAGGTGCAGGAAAATATGGCAGAAAAAAGGAAACGGGGGAAGCTTTGTA
AAGATTGGGCGCGCTTTTTACCCAATCTTTATGAATACCCCCTTTTCCTTTTTTATGAAC
TGTTTTTCAGTACCGGTAACTCTCGAACGGAGTGATTCGAGACTGAGATACGCCCATTGA
AAATCAGACATTCGGGTCGCATCAGAAACCTTTACCAAGACCTGCGACCCCAATCTACGG

CAACGGCGACAATATGCCCGATGAGAACTGCTGCCGTTGTTCGACAAAATCAATTTGCAG
CAAGGCAAGCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 377>:

GNMER76TR gnm_377

CCGCCGAAGCAATCGAGGCGGCGTGGATATTGTTGGTAATCACCCTCAGGCTGCCGCGCC
GCCTGACCAGCTCCGACACCACGGCCTCCATCGTCGTGCCGATACTGACAAACAGCGACG
AACCGTCGGGGATGTGTTCCGCAATCAGCCGGGCAATGGCGTTTTTTTCGTTTTGACACC
GGGTTTGGCGGTCGGCGGGCAGGCCCTCCGGCAAGTTTCCGCCCGAAGATGCGCCGCCGT
GATGGCGTTTCAGGCTGCCGACCTCCTCCAACTCGCGGATGTCGCGGCGTATCGTCTGCG
GGGTAACGTCCAATGCGGCGGCAAGCTCGTCCACCGACATAAACTGATGCCGGCGGACAA
GGCTTAAAATCTCTCCGTGCCTTTGGATTTTCGGCTTCATCGTTTTCTGAAAATCAGATA
CGGCAAAGGCGATAAGCTTCAAGCCCTGAATGAGTAGATCAGCCCATTGAGGGCTTGGCG
TTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 378>:

GNMER80TR gnm_378

AAATCCCGTTTATTCCCACAAAACAGAAAATCAAAAACAGCAACCTGAAATCCCGTCTTT
CCCGCGCAGGCGGTAATCTGAACACGTCCGTAGTGAAACCTATATCCCGTCATTCGCACG
AAAGTGGGAATCCAGGATGCAGGGAAAACCGTTTTATCCGATAAGTTTCCGCACCGAAAG
GTCTAGATTCCCGCTTTCGCGGGAATGACGGCGGAGGGTTTTTAGTTTTCTCGATAAATG
CACATCATCCAAAGTCCCGTTATTCCCACAAAAACAGAAAATCAAAAACAACAATCTGAA
ATTCCGTCCTTCCCGCCTGTGCGGGAATCCGGCTTGTTCGGTTTCGGTTCTTTTTCTCGT
TTCGGGTGATTTCTAAACCGTCATTCCCGCGCAGGCGGGAATCTAGGTAnGCATACGGCT
TTGTTCCGCAACCATTTGGGCCCCACGCCCGAAAAACTCGCCACCCTGCGCGAGCAGCTC
GGTCTGTTGGGGCTTCAACTTGGCGGCGGCGACAACCCGTCGCCGAnnAGATATGCCGCG
CTTGTCGAACATTCAAAGGCAGACTGATGCCGAATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 379>:

GNMER81TR gnm_379

CGCCCTTTGAATTTGCCCCCATAATGCAGCCTTGCCCAAGACCAATGCCGCATTCTGGTT
CAGATTCACATTGCCGTTAATCTGTGTCGCTCCAAAGCTGTTTAAAGCCTTATCGGATAA
GTTGCCTGTGTTGCAGGTAACGTAACCGGTATAGTCCGAGCGCACGCAAACCTCATCGCC
GTTTTTGTAACCCAAATTTACTTTGGCGTTGTCTGTTGCGGTGATGTTGGCGGTGATGTC
GGATACATTTCTGCCGGAAGAGAATGATGCGGATTGATTAACCGCAATTTCTGTGGCTTT
GAATGTGCGGTTTATCCAGTCGTCTTCAAATACGACTTCATTGTTTTTGGAGAAATGTGC
GTCTTTTCGGGCTGAAGATTTGTTCACAAAATCTCTTGCGTGTGGTGTTGGACGACCTGA
TAACAAGACATTGCCTTGATCTTTAAGCTTCGGTTTTTCTTGATAAATTCTTGCCGCATT
AAAATTCTAGATTCGCGCTTTCGCGGGAATGACGGCGGAGGGTTTTTTGTTTTCCCGATA
AATGCACATCATCCAAAGTCCCGTTATTCCCACAAAAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 380>:

GNMER87TR gnm_380

CAACAACTTCAGCGCCTGCATTATAGGCAGCATCAACCATTTCAAAAGCTGTTTTTAAAG
AGCCTTCATGATTGATGCCGATTTCACAGATAATCAATGGTTCGTGGTTGTAACCTACTG
AACGATTACCAATTTTAAATTCGTTGTTGTTTTGCATTTAGCTTTCCTTGTGATTAAGAA
TGTTTTCTGCCTGTTGTAAATCAAGCTCAGTATCAATATCGATAGAGTCTTGATGAGACA
TAATATAAAGTTTGGTTGGGGCGATAAAAAAACAATTATTTGCAATTAGTGAAGCAGTAT
CATTAATGTAAATTGCACCATTAGGCCTAAATGCCTGAGGTAATTGTTGGCGAGGCTGCT
CCAAATCGCTTAGATGGCGCATGGGGGCATATTCGCCATTATTGATTTGAAGCAAGGTTT
TTAGTGGATGATGCTCCACAAATACGCACTTGCCTGCCTTGTTGATAATGTTGTCGTGAA
TATCGGAATAATTGACATAGTTGAGCATAATGCCCTGATCGCGGCTGCCGACGGCGATAT
TGTCGAATACTTTGAGCCGCTCGGAAAACATCAGCACATAGCCCATATTGTTGCCCACGG
AAATATTGCCGCTGATTTCGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 381>:

GNMER88TR gnm_381

CACGGATGACGCGCGTACGGATTTCCCGGGTGGCTTCTTCATAGATTAAATTGCCCGCCG
CGCCGGCAGTGGAGTCCAATACATCGACCAAAGGCACGCCTGCCGCAATCAGCGTCGCCG
TCGTCGTGCCCCAGCGGGCAATCGTTCCTTTGCGGACAATGTCTCCGAAAATCGGCATAC
GCAGCAGTATGGCATCCATACGCCGTTGGATTTTAATCGAACGCGCCTTCAATTTAAGGA
AGCCGTATATGGCAAAGCCCAGTGCGATCAGCACCATCCAGCCGTATGAGACGAAAAAGT
CGGACATATCCATCACTGTTTGGGTCAGTGCGGGAAGCTCCGCGCCCATATTGGCGTAAA
CTTCTTTAAAGGCGGGCAGTACGAAAATCATCATCACGAATACCAAACCGATTGGGCATG
CAGAGACAACGGATCCTTTTATTTTCTCATCAAATAGAGAAAAACTTCACGAATATGAGC
CCCTGTGCGTAATGGACTGGTTGGTTGTAATAAGGTTACTGTGCCGGAATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 382>:

GNMER91TR gnm_382

CACGAAGCCCGCGCGGAACGCGTCTGCCACAAACAGCATACGTTCGGGGCCGGGGTTCGC
CAGTTCGCGGCGGATTTCCGCTTTGTCTTCACTGCGCGGATTGAAGCCGCACAAGCCTGT
TTCCAAGCCGCGCAGGGCTTTTTGGAAACTTTCTTGAATCGTGCGGCCCATCGCCATCAC
TTCGCCCACCGATTTCATCTGCGTGGTCAGGCGGTCGTCTGCGGCAGGGAATTTTTCAAA
CGCGAAACGCGGGATTTTGGTAACCACATAGTCGATGGAAGGCTCGAACGACGCGGGGGT
TTTGCCGCCGGTGATGTCGTTGCGCAACTCGTCCAGCGTAAAGCCGACCGCCAGCTTCGC
CGCCACCTTCGCAATCGGGAAACCCGTTGCTTTGGAAGCCAACGCGGAAGAACGGCTCAC
GCGCGGGTTCATCTCAATCACAACCGGTTCnGATTGCCTGCGCCCCCGCCTTGCCGCTGA
TGAATCGTTTCGGCAGGCATTGATTCCTTTTTCAAATACCGATGCCGTTTGAAAGATGTT
CAGACGGTATCTTCCGAACAGACAGATGAATATGGTTTCCAAACTGGACAAATACTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 383>:

GNMER94TR gnm_383

CACTACGTTCAATTTCGGCATTGCTGGTGCGGTCGTTCATTTCCTTTTCTAAATCTAATT
CGCCTTGTTTTTTGCCTTTGGTTTGCGCGTTTAAATGGTGCGCTTCATCACCCAGCATCA
CAAGGTTCAATTTGTGCAAATCCGCCAATGTGGTTTGATTTTCCCGCCGGGTGCGAATAT
CGTTATACAGCTTTTGAATGCTGGTAAATTTAATTTCAATGCCGTCTGAATGTGGGCTAA
ATGTCTCCACTTTGCGAATAGGAATTACCGTATCGCCCTGCAAAATCTTCTCGGTAAATA

AAAATTTTGCGTGCGTCGGATCGGTAAAATTAATTTCCGTTTTATCCACGATATTGTTTT
GATTCACAAAAAACAGAAAATGCCGATAACCTTTTTCAAAATAATACAAACGCACCCTGC
TGATGAACGATTTGGACAGCTTGGATATTACCGGGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 384>:

GNMER95TR gnm_384

AGCGGCACGGTTTGAAGCGGCCAGCCTATGCCGACTGTCGGGTCGTTCCATATTAAAACC
TGTTCGGCTTCAGGCTTGTAATAGTCCGTGCATTTATAGACGAACTCGGCTTCATCGCTC
AGTACATAGAAGCCGTGTGCGAGGCCTTCGGGTACCCACAGTTGGCGTTTGTTTTCTGCG
GACAGAATTTCGCCTACCCATTTGCCGAAAGTGGGGGAGTCTTTACGCATATCGACGGCC
ACGTCGAATACTTCGCCGACAACCACGCGTACGAGTTTGCCTTGTGTGTTTTCAGTTTGA
TAGTGCAGGCCGCGCAATACGCCTTTGCCGGATTTGGAGTGGTTTTCCTGCACGAAGGTG
CGTTCGCAGACTTGGGTTTTAGACCACTCGTCGCGGAAGGTTTCCATAAAAAAGCCGCGC
GCGTCGCCGAAGATCAACGCCGCCATCATCATCGTTTTGCCAGCACCTGTTGCCATATTG
AACAGCAAATGCGTTGGCTTATTTTTTAAATCAGGGAAATCGTCTAGCTTTGAAGTGCGG
TCAAAAATCAAAAAGTTTTCAAGGGCAGATTTnTGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 385>:

GNMER96TR gnm_385

CGGCTTCGACCGCGCCGGTGTGGTCGGGATGTGCGGACAGATCGACTTTGTGTTTTTCGC
CGTTTACTTTGAATGTGATGTAGGCATCGGGCAGGTTGAGTTTTTCGGCAAGGCAGCTGA
GCAGGACTTCGCCGCTGCCGTTATCCAGGACCGCGCCTTTGAGGGACGAGCTGCCGCAGT
TCAAAACCAAGATCAATTTTTGGGACATTTTCTTACTCCGGAAAGTTTCAGACGGCATTG
GAATCGGACACGGATACTAACCGGATTCGTGCCGAATCCGTTTTGCCTTCCTGGGCGGGA
AAGTAGTGGGGCCGTCTGAAAAGGTTGATAnAAGAACAGGCTATTCTAGCAnAAATCTTT
GCAATTGCTTGGCTTAATCGGGCGTTTGCGTGAAAATGGCGGAAGTCACTTGGnGCTCAA
GCAGTTTTACGTCAGGAATGGCGGTATCAATGATGTTCATCTTTTTATCTTTCATCTAAA
GGGCGTCTGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 386>:

gnm_386

AATTCAAGAATCAATAGGAAGGTTAAAAAAGGATAAAACTTCTTTTATAATTTCTCATCG
TCTTTCAATTATTCGTGATGCAACATTAATAATGGTTATTAATGATGGTAAAGTACTTGA
AATGGGTAATCATGATCAGCTGATGAAACAAAATGGATTTTATGCACGTTTAAAACAATC
TTCGGTTCGTTAATAAATTCTAATGACTGTTGCTGAAATTAAAAAACTTGCATTAAATAA
TCAGGTATTTAATGAAGCAAAAGCGCTTTTAGAAAAAGGTAATGTTATTTTTCCGGGTAC
CGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCA
CAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAG
TGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGT
CGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGgAgAgcGgTTTGCGTATTGGGCG
CTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGT
ATCAGCTCACTCAAAAGCGGTAATACGGTTATCCACAGAATCAnGGGATAACGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 387>:

GNMES45TR gnm_387

GCGGTCGCGCCCAAACAGCCCATTTCACCTTCGTCTTTTTCATTTTGTCTTTTCTCCCAA
TAAGCCCATTTTCCATCATCTCGATTTTGCCCAAAAGTAAAAACGGTGGCGGCTGATTGG
GCGCAAACGCCCAATGTACAACTTTAATCGCCCAAAAATTTATGCCAAAAAACGCAACTT
TAAACACGTACATTGGGAGGTCGCGCCCAATCAGCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 388>:

GNMES47TR gnm_388

CGCAAAAAGCTAGCGCACGGCGCTGTTTCTGCGGGTCGATATCGAGCGGCCGCAGCCTAA
GCTTGACAGGAATATTGGCCTTAAGTGACAGCATCGGCAAATCGTTGACAGCCCATAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 389>:

GNMES52TR gnm_389

TCCAGCTCGGTAGCAATACGAATTCGAGCTCGGTACCAGGTTACAGGAGAAACAGATTTA
AGAGGTTCTAATATTACAGCCGGTAAAAACTTGGTTGTCGCCACCACCAAAGGCAAGTTG
AATATCGAAGCCGTAAACAACTCATTCAGCAATTATTTTCCTACACAAAAAGCGGCTGAA
CTCAACCAAAAATCCAAAGAATTGGAACAGCAGATTGCGCAGTTGAAAAAAAGCTCGCCT
AAAAGCAAGCTGATTCCAACCCTGCAAGAAGAACGCGACCGTCTCGCTTTCTATATTCAA
GCCATCAACAAGGAAGTTAAAGGTAAAAAACCCAAAGGCAAAGAATACCTGCAAGCCAAG
CTTTCTGCACAAAATAATGACTTGAATTCCGCACAAGGCAATCAAATAACCGGTTCCGAT
ATTACGGCTTCCAAAAAACTGAACCTTCACGCCGCAGGCGTATTGCCAAAGGCAGCAGAT
TCAGAGGCGGCTGCTATTCTGATTGACGGCATAACCGACCAATATGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 390>:

GNMET50TR gnm_390

TGAGCAATTTAATTGCCGCTCGGTACCCTAACATATTGCCGCCAAGCGGTATGGAAGCGG
AAATAATGGTAGGTGGGCTTCAGACGGCATCCGCCCTCCCCGTCATTCCCCGCGTAAGCGG
GCATCCAGACCTTGGGATAGCGGCAATATTCAAAGGTTATAAAAGACCCGTCATTCCCCGC
GCAGGCGGGAATCCAGACCTTGGGATAGCGGCAATATTCAAAGGTTATCTGAAAATTTAG
AGGTTCTAGATTCCCGCTTTCGCGGGAATGACGAAAAGTTGCGGGAATCCAGAACGTCGG
GCAACGGCAATATTCAAAAGCCGTCTGAAAATTTAAAAGTTCTAGATTCCCGCTTTCGCG
GGAATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 391>:

GNMET92TF gnm_391

CCGTCAAATAGGACTGCAGTGAAAGTCATTTTGCGCCCTCCTTATTTTTCCAACGCAACG
GTGTGGCTGCCGTCGAGCGTGATGTCTTTGCCGTACACCTGCAAATCGAGCGACTCGCCT
TTGAGCAGAGTGAAGACGACGTTTTCTTTGCCGACGGCGACTTTAATCAGACGGCCGCGG
TAGTTGATGTGGAAGGCGTAGCCTGTCCACGCACTCGGCAGGAACGGTGCGAAGCTGAGT
TTGCCGCCCCAGGTTTTCATTTGGGCGAAACCTTGGACGATGGCGAGCCAAGAGCCGGTC
ATGGAGGGGATGTGCAGGCCGTCCTCGGTGGCGTTGTTGTAATTGGCCAAGTCCAAGCGG
GCGGTGCGCTGGGACATTTCCACGGCTTTTTCGTCCTTGCCCAATTCGGGGGCGAGAATA

GAGTGAATACAAGGCGACAGCGAGCTTTCATGCACGGTCAACGGTTCGTAGAAGTCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 392>:

gnm_392

GCACAACTTAATTATGTTGCCTGAAACATCATATAAAAGATAATAAAAGGTACGCAGCCA
TGAATTACGCAAAAGAAATCAATGCGTTAAATAACAGCCTTTCCGATTTGAAAGGCGACA
TCAACGTTTCATTCGAATTTTTCCCGCCGAAAAACGAACAAATGGAAACCATGCTGTGGG
ATTCCATCCATCGCCTGCAAACCTTGCACCCGAAATTTGTTTCCGTAACTTACGGTGCAA
ACTCAGGCGAGCGCGACCGCACACACGGCATCGTCAAACGCATCAAACAGGAAACCGGCT
TGGAAGCCGCGCCTCACCTGACCGGTATCGACGCTTCTCCCGACGAATTGCGCCAAATTG
CCAAAGATTATTGGGACAGCGGCATCCGCCGCATTGTCGCCCTGCGCGGAGACGAGCCGG
CCGGTTATGAGAAAAAACCGTTTTACGCCGAAGACTTGGTTAAGCTATTACGCTCCGTCG
CCGACTTCGACATCTCTGTAGCAGCATATCCCGAAGTGCATCCCGAAGCGAAATCCGCAC
AAGCCGACCTGAwTAATTTGAAACGCAAAATCGATGCGGGCGCGAACCACGTCATCACCC
AATTCTTCTTCGATGTGGAACGCTACCTGCGCTTCCGCGACCGCTGCGTGATGTTGGGTA
TCGATGTGGAAATCGTCCCCGGTATTTTGCCTGTTACCAACTTCAGGCAGCTCGGTAAAA
TGGCTCAAGTAACCAACGTCAAAATCCAAGCTGGCTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 393>:

gnm_393

CGGCTGTCTTCATTGGCGTACGGCGCGCTACTGCTCACACCGGTACTACCCGAAAGTTAT
GCAGCAAGCGTAGGACGTGTCTTCAGCACGCACGCGTCTGAACAGTATACAGAGAATCTG
AATATTTACTgCATAACAAATGCCGTCTGAAAAATTGTGAGCTTTTCAGACGGCATTGAG
CCGTAAATCATGGAACGCGTGCGCGCTGAAGCACACACCTTACGCATGGATTTTAGGTTT
CATGCAGGCTACAGCTTGCTTCCATAAATCATTTTTATCAGAGCTCGTAGGTACGGTTAA
GCTTTTAGGGTTAGCCGGTACAATGTGAACTCCATTTTTACCTGAATGAATCGTACCAAA
ATTGGTACTTAATCCTGATTTCCCATCGCTGCCTATAGGATACCCAAAATCAACAACAGG
ATTTCCTCTTGCTCCTTTAGAAATAACTGGATAAGCACCTGAATGTATTCCGTTCAACAA
TTCTTGAGGATTAATGTTTTGATTTAAAGTACTCTTACCTTCAATGTAGTTTCTATGTCC
TGAAATATGTTTCCCTTGAGCTCCATCATGAATTTTAGTCCCAATAGATTTTGCTTTAAA
ATCAACATTGCGGGTTTGAAACATTTCTCCATCTACAGACTGAGATAATCTTGAAGCAGT
GTTATGCCTGTAGGAGTCTGAGAAATCCCCACTAACCGCAGCCTTCCCCGGTTTTGGCGC
CTTTGTCAGGTTTTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 394>:

gnm_394

GACGGCGAGCATAATGTCGCTGTCGTATTCGTTCATCTGGCAGCCGAAGGTGCGGATAAA
TACTTTTTTCATGGTTGTGTCTTTCTCAGGCAGCCGTAATCGCGGGGCTGATTGTTGTTG
GAATGAAAAAATTTCAGACGGCACGACGATGCCGTCTGAAAATCGGTGCGGATTATAGCA
CGATGTGGGTTTTGGAGGCAGGATATTGTTTTAAAATATGAATTTAATCGGTCGGGACGG
CTGTATAATGTTTGGCTTTAATGGGAGATGTGTATGAAACCGGCTGTATGGGCGGCATTG
CTGCTGTGTGCGTGTACCAGCAATTTCGGCGACAGGGAACATCAGTTCCTGCGTTATAGT
GGATTAACAAAAACCAGTACAGCGTTGCCTCGCCTTGCCGTACTATCTGTACTGTCTGCG
GCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATATCAGACGGAAGAGGGAATCGC
ACTGGATTGAGCCGAAATGCCGTCCGAAAACAGCAGACCGATGCCGTCATTCCCGCGCAG
GCGGGAATCCAGACCTTGGGATAACGGCAATATTCAAAGGTTATCTGAAAGTCCGAGATT

CTGGATTCCCACTTTCGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACGTGGTGCAG
GTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGAACGTAAAATCTA
AAGAAACCGTGTTGTAACGGCAGACCGATGCCGTCATTCCCGCGCAGGCGGGAATCTAGA
CCATTGGACAGCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTGGATTCCCACT
TTCGTGGGAATGACGGGATTTGAGATTGCGGCATTTATCGGAAAAAACAGAAACCGCTCC
GCCGTCATTCCCGCGCAGGCGGGAATCTAGGTTTGTCGGTGCGGAAACTTATCGGGTAAA
ACGGTTTCTTTAGATTTTGCGTTCTAGATTCGCACTTTCGCGGGAATGACGAAGAGTTGC
GGGAATGATGGAAAGCTATGGGAATAACGAAGGGTTAAAGTAATCACGGGATGGTGTTCG
CGGGAATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 395>:

GNMEW92TF gnm_395

GGTTTCGCTTGTTTTAAGTTTCGGGTAACTTCCACTTCGTCATTCCCACGAAAGTGGGAA
TCCAGTTTTTTGAGTTTCAGTCATTTCCGAGAAATTGCCTTAGCATTGAATGTCTAGATT
CCCGCCTACGCGGGAATGACGGATTTTAGGTTGGGGGCATTTATTGGAAAAAGCACAAAG
CTGAAAGTCGGCATTCCCGCGCAAGCGGGAATCCAGTGCGTTGAGTTTCAGCTATTTAGA
ATAAATTTTGGGACTCTAATCGCGTCATTCCCACGAAAGTGGGAATCCAGGACGCAAAAT
CTCAAGAAACCGTTTTACCTGATAAGTTTCTGCACTGACAGACCTATATTCTCGCCTGCG
CGGGAATGACGAATCCATCCATACGGAAACCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 396>:

gnm_396

CCGGGCGAAGTCATCGCCGGCGCGCTCGGCAGAGACCTCAAACAATGCGCCGTTTACGGC
CGCGAAGGCCACACCGGTCCGCGCGATCCGTCGACCATCGGCTTTGCCACCGTCCGCGCA
GGCGACATCGTCGGCGACCACACCGCCCTCTTCGCCACCGACGGCGAGCGCGTGGAAATC
ACCCACAAGGCCAGCAGCCGCATGACCTTTGCCGCCGGTGCCGTCCGCGCCGCAGTTTGG
GTCAACGGCAAAACGGGTTTGTACGATATGCAGGACGTACTCGGGCTGAACAGCCGTTAA
CCCCCATACAAAATGCCGTCTGArAAGATATTGTTCACACGGCATTTTGCCGACAGGCTC
CGTATCGGCATATCAATGTTTCAGCACACAGGACGACGCATAAAGCGTCGCCCTATGTGT
TGCCCTGAGTCGGCACGGGTTACGCCCCTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 397>:

GNMEW95TR gnm_397

GTCCGATGTCTGTATTGATTCCAGATCAGTCACCATTTTTTGGGAGTCTTCAATGGTTAT
ATCGCCAAATTCTTTTCCATGAGCTTTGAACTGTCCATTTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 398>:

GNMEZ23F gnm_398

TGGTTTTGGGTGGGTCAAACAACTCCTACTTACATGGATCGGCAAAACGACGATCACCAA
CTGCAATCACTTCGTCAATCAGGTAACAGTCAAACTCCACCGCCAACGACAGCGCAAAAG
CCAAACGCGCTTTCATACCTGAAGAATAGCGTTTCACCGGCTCATACAAATATTGCCCCA
GCTCCGAAAATTCTTCCGTAAACGCTTTCACATAATCGATATCGACATTGTAAATCCGGC
AGATGAAACGCAAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 399>:

GNMEZ79TR gnm_399

TCCCTCTGGCCTGAACCAAGCCCGAAATTATACCTGCAACATCCGACACAAACAAAGGCA
TTTCAATATTTTTATTTCTATGAAATAAAAGCGTGTAAGCAGGCTTACACGCTTTTATTT
GGCTGGGGAGGAAGGATTCGAACCTTCGCATGCTGGAATCAAAATCCAGTGTCTTAACCG
CTTGACGACTCCCCAAAAAGGGCTGGCTGGGGAGGAAGGATTCGAACCTTCGCATGCTGG
AATCAGGATCCACTGTCTTAACCGCTTGACGACTCCCCAACTCGCTTGACTTGGCTGGGG
AGGAAGGATTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 400>:

GNMFC24TR gnm_400

CTCGAGGGAATTGACCGGCAATTCTTCAAGCAATAAACAGGAATACCAATTATTAAAAGA
TAACTTAGTCAGATCGTACAATAAAGCTTTGAAGAAAAATGCGCCTTATTCAATCTTTGC
TATAAAAAATGGCCCAAAATCTCACATTGGAAGACATTTGATGACCTCATTTCTTTCAAT
GAAGGGCCTAACGGAGTTGACTAATGTTGTGGGAAATTGGAGCGATAAGCGTGCTTCTGC
CGTGGCCAGGACAACGTATACTCATCAGATAACAGCAATACCTGATCACTACTTCGCACT
AATTTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 401>:

GNMFC24TF gnm_401

AATTCCCCGAGGAATTATTCGATAAAGATAAGCTTACATTATGAAGAGCAGCATATTACA
GCCGTATGGGTCTACTTGACAGTAAAATTTGAAGAGCATTGGAAGCCTGTTGATGTAGAG
GTCGAGTTTAGATGCAAGTTCAAGGAGCGAAAGGTGGATGGGTAGGTTATATAGGGATAT
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 402>:

GNMFC32TF gnm_402

GCAGTCGACAGTAGnAGATCCCCACCCGTACCGATGCAGAAGGCTATATCGAGAAACTGC
ACATTACCCCCGCCAATGCCCATGAGTGCAAACACCTGTCGCCGTTGTTGGAAGGTCTGC
CCAAAGGTACGACCGTCTATGCCGACAAAGGCTATGACAGTGCGGAAAACCGGCAACATC
TGGAAGAACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 403>:

GNMFC63TF gnm_403

CGATAAAAACCTGCGCTATCACGGCCTGATGCAGGGCATTTCGCGCGAAAAATCCGACGA
AATCTTCAACTACATGGAAAAATTCGCCGGCTACGGTTTCAACAAATCCCACGCCGCCGC
CTACGCCCTGATTTCCTACCAGACCGCATGGCTTAAAGCGCACTACCCCGCCGAATTTAT
GGCGGCGACCATGTCGTCCGAATTGGACAACACCGACCAGCTCAAGCATTTCTACGACGA
CTGCCGCGCCAACGGCATTGAGTTCCTGCCGCCCGACATCAACGAATCCGACTACCGCTT

CACGCCGTATCCGGACATGAAAATCCGCTACGCGCTCGGCGCGATTAAAAGCACGGGCGA
GCCCGCCGTCGAATCCATCACCGCCGCGCGGCAAAGCGGCGGCAAGTTTACCGGTCTGTT
GGACTTCTGCGAGCGCGTCGGCAAAGAACACATGAACCGCCGCACCCTCGAGGCCCTGAT
ACGCGGCGGCGCGTTCGACAGCATCGAACCCAACCGCGCCATGCTCTTGGCGAACATCGA
CCTCGCTATGGACAACGCCGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 404>:

GNMFD08TR gnm_404

ATTACGTATCGAGGCATTCGAGCTCGGATACCCGGGTTAATATCAGATTTTGGAGCAGTA
AAATTTATTATGTACACTAATCCAAAACAAAATCAAATATTGAAAACTAGATTTATTTTC
GAATAAATAGAAAGCCGTCTTATATATAGTAATAAATTAATAACCCTGTTTTTCCTATTG
CCTTTATTGTGCCATGCAGTTGAGTTTGATGAAACTCAATATAACGACTGTAAAGATAAA
TCTATGTTATGTGCTGTCAGAATTGATTCTCCCAAAGGCAATAACTATAGTGGATTAACA
AAAATCAGGACAAGGCGACGAAGCCGCACACAGTACAAATAGTACGGCAAGGCGAGGCAA
CGACGTACTGGTTTAAATTTAATCCACTATATAAATCTATGTGGTTTGACAATGGCAAGT
TAGTATTTATATCCTTTACTAATCAACAAATGGAAAATCAAAGTCGCCCATCTCTAGCGA
TGTTTATTAGTGATGACAAAATATCCAGTACCAATATTGATGAATTTTTAGCATCTTTCG
ATCCTGATAAATATCGAATATTTCATGATCCAAGATATAAATTTTTACCTAGTATGTCGA
ACTCATTGTAATCCTTATTCTCTTTTTGATATTGATAGCAAATATAAACCTGATGAGAAA
GATAAAATCTTTTTTTCAATCACGACAGATAACACAGATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 405>:

GNMFE17TF gnm_405

GTTATCCAAAGGAGGCTGTCGAAGGCAAGGCATGAAATCGAGCAGTCCGTATTGTTTGAC
TTTGTCGTGGTCAATGACGACTTGGCGCGAGCGGAGGAGGATTTGCGCCATATTGTGAAT
GCCTGCCGTCTGAAAAGGTCGCGGCAACTGGGGTTTATTGCAGATTTGTTGGAAAATTCC
TAGAAAACGGCGAAAATACCCGGTTTCCCAATTTAAATATTTTTGAAAGAAAGCAAATAA
TATGGCACGTATTACCACCGAAGACTGTACCGGAAAAATTTCCAACCATTTTGACCTGAC
ATTGGTAACGGCTCGCGGGGCCGGCAACCTTGAAAACGGCAACACGCCGCTTGTGGACAA
TGTCCGCACTACCAAACCGACCGTTACCGCCTTAAGGGAAATCGCCGCCGGACATATCGG
TACAGAACTGTTGACGCGCAATAAATAAATTCTGCCGGAAACGCACGCCGGAACACTTTG
CCGCCGTGCAGTCCGACGGTTTGAAATGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 406>:

GNMFE18TF gnm_406

CTTTGGATGAAGATGGTGTAATGCACGCTTTGGTCGGACGGGTCGAAATGCGCGCTTTCG
ACTTGCCCGACCATAAAATTTTCATACAAAACAGGGCTGTTGACGTTGAGGATGCGGTCG
TTTTTACCAATCAAATTCAAGCGCAGCCCGCTTTGCCCGATGGCGGTAACGGGCGGAATG
TCCTGCACTTGGAACACGTCTTTTGCCTCGTCGCTTTTGCCGGGTGTAAAGGCGATGTAC
GAACCCGAAAGCAGCGTACCCAAACCGGTTACGCCGCTTTGGTCGATACGCGGCTTGACA
ACCAAAACTGGGTAACCCTGCGGATAAGGCCGAATACTTCGGCATTGATTTGGGCGGTTA
CTTCAACGCCTTTTTGGTCGTCGCGCAGTTTGATTCGGGTAACGCGTCCGACATCGATGC
TCAATACTTTGATGACCGTATTGTTGACCTCAATGCCTTCCGCGCTGTCCATCAGGAGCG
TAACCACAGGCCCCCTGTTGCGGATTTCCTTAACCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 407>:

GNMFE54TR gnm_407

CTCGGCTACCCTGCAAATTCCAGATTCCCGTCTGCGCGGGAATGACGATTCATAAGTTTC
CCGAAATTCCAACATAACCGAAACCTGACAGTAACCGTAGCAACTGAACCGTCATTCCCA
CCACTTTTCGTCATTCCCGCGAAAGCGGGAATCCAGAATCTCGGACTTTCAGATAATCTT
TGAATATTGCTGTTGTTCTAAGGTCTGGATTCCCGCCTGCGCGGGAATGACGAATCCATC
CGCACGGAAACCTGCACCACGTCATTCCCACGAACCCACATCCCGTCATTCCCGCAAAAG
CGGGAATCTAGGACGCAGGGTTAAGAAAACCTACATCCCGTCATTCCCTCAAAAACAGAA
AACCAAAATCAGAAACCTAAAATCCCGTCATTCCCGCAAAAGCGGGAATCCAGTCCGTTC
AGTTTCGGTCATTTCCGATAAATTCCTGTTGCTTTTCATTTCTAGATTCCCACTTTCGTG
GGAATGACGGCGGAAGGGTTTTGGTTTTTTCCGATAAATTCTTGAGGCATTGAAATTCCA
GATTCCCGCCTGCGCGGGAATGACGATTCATAAGTTTCCCGAAATTCCAACATAAGCGAA
ACCTGACAGTAACCGTAGCAACTGAACCGTCATTCCCACCACTTTTCGTCATTCCCGCGA
AAGCGGGAATCTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 408>:

GNMFF86R gnm_408

GAATGACGATTCATAAGTTTCCCGAAATTCCAACATAACCGAAACCTGACAGTAACCGTA
GCAACTGAACCGTCATTCCCACCACTTTTCGTCATACCCGCGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 409>:

GNMFG09F gnm_409

CCGACTACGATTTACTTATAAAAAATGGACAGACAGTAAATGGTATGCCTGTTGAAATTG
CAATTAAAGAGAAAAAAATAGCTGCTGTTGCACAGACTATTTCAGGTTCTGCAAAAGAAA
CTATCCACTTAGAACCAGGTACTTATGTATCCGCAGCTGGATAGATGATCACGTTCATTG
TTTTGAAAAAATGGCTCTTTATTATGATTATCCAGATGAAATTGGGGTCAAAAAGGGTGT
TACGACAGTGATTGATGCTGGGACAACAGGTGCTGAAAACATTCATGAATTTTATGACTT
AGCGCACAAGCAAAAACAAATGTTTTGGATTAGTCAATATTTCTAAATGGGGCATCGTT
GCTCAGGACGAACTCGCAGATTTAAGTAAAGTACAAGCGAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 410>:

GNMFG29F gnm_410

AAATCAGAGAAGCTACTGCGAAAGTTGCTGCTGAAAAAGGTGATCAAAATGGATAAGCGT
TCGGTGCTATGATGGATTAAATTCGTTGGAAACTGATTTAGACAGTTCAGTGACACAATT
AAGAGAAATTAAAGCAGGGCTCCATGAGTTGGTAGAAAAAAATACCACGTTGGAAATCGG
AAACCAACGCTTACGAGAGCATCTCCAAGAACTGAATAAGTTAGCAGGAAATACAACTGA
AACTGAAAAACAAGAGCTATCAAAATCTCGTATGAATTTGGAAAAACTTTATGAAGAGGG
CTTCCATGTCTGCAATATTTTATATGGTTCAAGACGTGAAAATGATGAAGAATGTGCCTT
TTGTCTTGATGTTATTTATGGGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 411>:

GNMFI01F gnm_411

CCTGTCGACCCAGATGGTTATAAAATCGAAGTCATTCGTGAGTGTTAAAAAGTTTCACTT
GTTCACTTACTGAGCTTTTTGTGTTTGAGAGCTGTCCGAGACAAAACTTGTCTCGACTTC
TTCTCAAACACTTTTTTCAAAAAAAGTGCTACAATAGAACGTATGAATTTATTGAGGATG
TGATGTTATTATGACAAAAAAAAATTATTGGAATCGCTGGCAATCAACTTTTGCAGGCAGC
TGAAGTGTTTCACGGTAACCAAGTGACGTACACCCCACAAGGTTTTGTCAGCGCTGTTCA
AGCCGCAGGTGGCGTTCCTCTCGTTTTGCCAATTGGCCCCAAAGAATTAGCCGCTACGTA
TATACAACAAATTGATAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 412>:

GNMFI03F gnm_412

CCGGTGAGTTGCTGCTTTTAATATACTCTCATCTTTTATTGTTTCTGCTTCTTGTATTTT
GCTTTCATATTCTTTTTCTAATTCTTTTACTTGATTACTTAAAGTTAAACTCTTTTCATT
GATAATATCTTCGATGGAATTATTTACTGAATCTTTTAATTTATCAGTTTGTCGATAAAG
TCCGTATAATTGTGTAAAAGTAAAAAGGCCATATAACAGTCCTTTTACGGTACAATGTTT
TTAACGACAAAAACATACCCAGGAGGACTTTTACATGACCCAAGTACATTTTACACTGAA
AAGCGAAGAGATTCAAAGCATTATTGAATATTCTGTAAAGGATGACGTTTCTAAAAATAT
TTTAACAACGGTATTTAAATTTTCCAAAAAAACCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 413>:

GNMFI04F gnm_413

CCGGAAAGAAAAAAATATTACTTTAGTTGAGTTAAGTGAGGAGTTAGGTATTCCACGTTC
CACTCTTAATAGGTATGAAAACGAAGATAGCGAACCAAAACAAGAAACTTGGGAAAAATT
AGCTGATTATTATGGTGTTTCTACGGCTTATTTAATGGGGATATCCAACCAAAAGGTTAG
CGAAGAAAAAGCTTTGACGGCCGCAAAGAAAGTTTATCAAGTCTATCTTTCCGACGACGA
TTTAGGAAAAGAAATTCGAAAAGCTCTAATGTATTTTAATAAAAATGATTTAGATAGTGT
CTTAAAACAAGCAATGCAGCAGTATTTTACTATCCCAGCCGTTGAATGGAATACAGAATT
TCAATCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 414>:

GNMFI05F gnm_414

TGCGCCGCTGATTCTAAATCATTTTGTAAATCGTCGTTCAGGGATAATCGCTGCTATTTT
CCAAGTCGTTTTTGCGTTATTTATCTTTTATAATTCTATCGGCACAAACTCGTTGACGGT
TATTCTGATTATGTACTTATTCTCAGGATTTCTAGCAACAGTTGTTAAACGGAAACGGAT
GAGTGAGCAAGTTTTCCCAGCTTTAATGTGGGTAGTGGTCTTTCCTGTTTTCATGGCGGT
TGTCTTAATGATTTATCAAGGGATGAGTTTAACAGATGGTAAAACGTGGACAGCTTTAAT
TTGTGCAAGTGCAGGAACGGTACTTTCATTTTTAGCAACAATGGGCTTGCATCCATATAT
CGAATTATTAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 415>:

GNMFI07F gnm_415

CCGGCCTATCGATTTCCCCACATTTACAGTTGGCAACTGGCGGTGGAAGCGTTATGCCCA

TAGTGGTCTATTTGATTTGGATAAAAAAATCAAGGACTATTCTCCTGAAGAGTTAGCATT
ATTTTTATATGCTCCACAACAAAAACTAGCTAATCCACCCAAAGAGTGGCCTCATACAGC
TTTGTATGAAGGAATCGTCCCGCGTATGCAACGTAGCATATTGCATACAGACGAAGGCAA
ACGTCATCAAAAATACCTTAATCACTTTGTTACCGTAAAAAGATGTCCTGATTGTTTAGG
AAGTAGAGTCAATGAACGTGTTCGTAGCTGCAAAATTAATCAGAAAAGTATTGCTGATGC
TGTTGACATGCCACTCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 416>:

GNMFI08F gnm_416

ATTCCCACCTAACTCGTTAAGCACCGAAGCTTCAATCAAGCAAGGGTGCATTTATTTTGC
TTCCTTAGTCAATCGAGCAAAGGATATCGGTTGTGATCAAGAGAGCATCATTCAATCGTA
TAACTATGGTGGTGGATATTTAGACTATGTTGGAAAAAATGGAAAGAAGTACAGCTTTGC
CTTAGCGGAATCTTTTTCAAAAGAAAAATCAGATGGGGAAAAAGTGACCTATTCGAATCC
AATCGCTATTAAGGAGAATGGTGGTTGGCGTTATAACTATGGAAATATGTTTTATGTAAT
GTTAGTGAAACAATATCTTACTACAACGAAGTTTGATGATAAAACCGTTCAAGGAATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 417>:

GNMFI09F gnm_417

CGGAGTTTTGATGAAGATTGTTATCAAGAGTGTATGATTAGGTTATATTTAGCTTTGAAA
AAGTTTGAAATACGTGAATGATACATTTTTGAAATAACAGACTCCGTCTACCACTCTTTA
TTATTACTGTTCAAAAGATATGTTCAAATACACTTAACTACTTTTGTAAAAAAATATAAA
AAATACTGAAAGATTACTTCATTTTATTAATTTAAATCTATTGAATCATGTAGAGGTGGC
GTTAACCATGTATTTATTTTTATTAGGCATGTTTATAGGATGTTTGCTTGGTATAACGAT
TTTAAATTGTTTAGCCATTGCAAAATATGATGATATGAGTTCTGGAAGAAATTAGCTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 418>:

GNMFI10F gnm_418

CCGAATTTTTCTTTTTACATCCGAAGGTTTACTACTTCATTATTAAGATGTTCCCAAACA
ATTTGCTCTGGCGGTGCCGTTTTATTATAAATACGGTAAACAATACGATCTAATGATTTC
CCAAGAAGTGATTTCCCCGACACCTTTATTTGTACTGTTGCCTGATCGTCTACAACTACG
GCATCAACATAGAAATAGAGCCCTTCCATATAAATAACAGTGTCTGGAACAAATATTTGT
ATATATAAAGGTGTCAAACCAACAAACAGCTCAAACGTTGAATAGGTATAGTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 419>:

GNMFI11F gnm_419

CCTGATTTTAGCTTTATCGAAAAACCATTAATTACGAAAGGAGCAACTCGTGAAGAAATT
ATTCAGGATCAATTGGTTTTAGCTGGGGACCCTGCCAATCAGAATTGGTTGGTACGTGAA
AAGGATTCTGGGGTCTTTCATTATACCCAACAGTATTTAGAAGAAAGTAATCAAAGCCCA
ACACTCATGACGGTTAAAAACAATGAAATGATTGTTAAAATGTTGGAATTGGGCATGGGG
CAATCGTTGCTTTCAAGAAAAGCGATTACTGAAAAAATTCCTTTCCAAACGTTAGGTGAA
AAGTATTGGCGTACCTTTAATTTATTAACACGGGGACATTTAAAATCCTCCTTGCTTCAA
GAAGTAAAACAAGCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 420>:

GNMFI12F gnm_420

CCTACTAGAAGCAATCGCGCAATATCATCGGTATGCAAGCCTGTTGTTGGTTCATCCAGA
ATATAAAAGTTTTTCCCATTAGAATTTTTATGAAGTTCACTCGCTAGCTTCATCCGCTGT
GCTTCCCCACCAGATAAAGTAGTTGCCGGCTGCCCCAATGTCACATAGCCTAAGCCTACA
TCCACAATTGTTTGCAATTTACGATGAATTTTAGGAATATGTTTGAAAAATTCTACGGCA
TCTTCCACCGTCATATCTAAAATATCAGAAATGTTTTTGCCTTTATAATGAACTTCTAAC
GTCTCAGAATTATAACGTTTGCCATGACAAACTTCGCAAGGCACATAGACATCAGGTAAA
AAGATGCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 421>:

GNMFI13F gnm_421

CCGGGGCTTTCAAATTGGCTAGCTCTGTTTCTTTTTCAGCCAACAGTTGTTCTTGTTTAG
CCAATTCGTCTTTTTGCTTTTCAAGCATCTCAGCTGGAATTCCTGGTTGTTGCTCCAACT
GCGCAAGTGCTTGTTTTCCCGTTTCCAGCGCTTGCCGACCTTGGTTAATGTCCGGCTGAG
CCGAATCACGCAGAGCCGCAACCTGTTCTTCTGGCCGATTTTTCAGTGCCTCTTTTACTT
GATTTAAGGCCTGCTCTCTTTTCTTTTCATAATCAGAGGAATACGTATTTTGATGTTTTA
ATGAACGAAATGAGATTAGCAATTCTGGATACCGTTGACTGTCAAAGGCTTTTTCCGAAA
CCACGCCAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 422>:

GNMFI14F gnm_422

CCGAATTGGAGGGTAAACCTTTTTCAATTTTTGTTAATGCAGGAGAGAAAGTTACTACCG
AAACATTATTAGCCGAAGTTGATTTTGATCAAATTAAACAAGCAGGAAAAAGATCCATCTG
TCATAGTTGTTTTTACTAAACCTGAACAAGTTAATGAAGTCATCTTAAATAGTTATACAA
CTATATATGGTGATTCGTGTGGTAAAATTATACTTTGACGTAGAGTTAAGTATGTTATCG
GATTAAATTTAAATGAATAAAAGGTGATTATAGACTGTGAGTTATAGAATTTAAGTAAAT
TATATTAACAAAACACCCTACTATTATATAAATCAGTAGGGTGTTTTCTACTTATCCGAA
CTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 423>:

GNMFI15F gnm_423

CCGTTTTGCAATTTTACTACGTTACTTACCAGTGAAAAAACATTTCCCTTATTTAATTCT
TGGTTTTACTGTAACTGCTTTACTAGGAACAATCTTTACAAACATGCAACTTTTAGGAAC
ATCTGTTGCGAGCGTTGTGAAAGACTTCAGTGGTGTATTTAACGCACTACCAATGTTAGC
AGTCGCTTTAATTGGTTTCGCTTTAGCCGCAATTAGCTACAAAAAATGGTCAAATGATTCC
GAGTGGGCCAGCAGCCAAAAAAGAACATGCAGCGAATGATTCAGACGAAGGAGAGATTGA
AGATGACGAAATCTAATTATAAATTGACGAAAGAAGATTTTAAACAAATTAATCGCAGAA
GCTTGTTTACTTTCCAAnTTAAnGGGGGGGTTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 424>:

GNMFI16F gnm_424

CCAGCCATTGCAGTCGAAGAAGTTGATTTTTTAACGGAAACAATTAAAGAACCGAACGCA
GTAGTAGTTCCGTTTCTTTCAAAAAGAGGCGTATAAAGGGAGGAAGAAGGAATGGAATTT
GTAATCATTTTGCTGAAGTCATTGCTTATTGGTGGTTTACTAGGTTTTGCAGCTGGCGCA
GGCGCTGCTCGGATGTTTCATGCACCACAAACGCAAGGGTTAGGGGCATTTAGAACATTA
GGAGAAATGAACGCGGCACAAGGAGATCCAGCATCACACTTTTCTTTTGGTTTAGGTTTT
TTCTTTAATGCTTGGGCTTCGGCCGTCGGAGCAGGGGCCTTTACACAAGATGTGACCCAC
CGGAnTTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 425>:

GNMFI17F gnm_425

CTGAAGATTATCATCATGTTAAATATACAGATGAAGCGATTAACGCAGCAGCAAACTTAT
CCAATCGTTACATTCAAGATCGCTTTTTACCAGATAAAGCGATTGACTTGTTAGATGAAT
CTGGTTCAAAAAATGAATCTAACTATCCAACTCGTCGATCCAAAAACAATTGATAAAAAAT
TAGCAGAAGCGGAACAACAAAAACAACAAGCTTCCGCAGAAGAAGATTTTGAAAAAGCGG
CTTATTATCGTGATCAAATCAATAAATTACAAGCAATGAAAGAAAAACAAATCAGCGATG
AAGAAACACCAGTCATCACTGAAAAAGATATTGAAGCCATTGTGGAACAAAAAACTGGCA
TTCCTGTCGGTGACTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 426>:

GNMFI18F gnm_426

CCTGTGAATAATCCAGCCAAATTAATCGCTTTAACTGCCTTAAGTTCTGTGGGAATTAAC
TTACTAGTTGGCGAACAATATTTGTCAATTATTTTACCAGGGGAAACATTTAAATCCTCA
TTTACTCGTTTAGGTATTGATAAAAAATATTTAACTCGTACTTTGGCAGATGCTGGGGCG
GCAGTCAACTCGTTAATTCCTTGGGGAGTTAGTGGTACCTTCATTATGGGAACGTTAAAA
GTTGGTGCACTAGAATACTTACCATATGCCTTTTTCCCATTGCTTTGTCCCATTATCACC
GTCATTTTGGGGATATTCTTAAAAAAACAACAAGGGGAAAACAAAAAAGCACCAGGGACT
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 427>:

GNMFI20F gnm_427

CGAGGGACTTTACAATCAGTTGGTCAGGTTGTCGCCAGTGCCAATATGGTCAATGAGAAC
GCAGTTCAACTTGCGATGCTCTTTAAAATTATGCGGATTGTCCTACTCGTAGCAGTTGTC
TATTTATTTGGACGTTTCAAGCAAAGTAAGACGGCAGAATCAGAGGCTGAGTTGGTAGAA
GTCACCAAAAAAAGCAGCGCCCTACCTTGGTATGTAGTTGGCTTTTTCATTGCCTGTGTC
TTTAATAGTTTGATTCATTTCCCCGTCGTGATCAGTGAGACTGCTCATTTCTTTAGTTCT
TGGTTTGAAATTACTGCCTTGGCAGCAATCGGGTTACGACTCGATTTTAAAAAGTTTTTC
CA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 428>:

GNMFI21F gnm_428

CCGGCGCACCAACTTGGAATGGCCGAGAATATGTACAACGCTTAATCGCAGCTGCAGGTA

TCAAACAAGACTATAGGACGTCATTAGCCCAAGCTCAATTAATTAATTGGTGTATGTTCA
ATGGGCAATGGTTAGGACAAGTAAGTCCATTAACAGTTGATGAATTTAAAGTTGTCAGCT
CGCCTAAAACAGCTGCTTATGCGTTTGAATTAAACTTTGAACGTCCAGCTGCAGCACATC
CAGAAAGACAAACCTATGCACAAGCATGGTATGACAAATTCAAAGATTTGAAAGCTTCTA
CTGCAACAGGAAAAGCTGGCATAGAACATTTGGAGACCTTAATGGGCAAATGGCTTGGTA
ATGGGCAATGTTATGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 429>:

GNMFI22F gnm_429

CGAACTGGTTGCCAAAGAACTCTACCAAGACTCGACTGCAGCAGTTAATCGAACTTTTCC
ATATAAAGAGCAACTTTTTACCATTGTTGGCGTGACAACCAATACCAGCGGTGCCATTGG
TCCAGGTAATGATGACTCATTGCTTTATTTTCCCAAAAAGACCTATGAACATTATTTCGG
CAAGCTAAAAGATACATCTACGTTGAAACTAACAGTAGCACCTGGCTATCAACCAGATCA
AGTATTGAAAGAAACAATAAAAACTCTCTCTCAACAAGGAACCATGAAAAACAGTGGGAC
GTATCAAGAATATAATGTTAAAGATACCATCAAAGAAATGGGCTCTTTATTAAATAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 430>:

GNMFI23F gnm_430

CCTGATTACGGTCGTTATTATGATGCCGTTTATGAAACGTTGAAAAAATGGTGCACCGCAA
CTAGTAACTAAAGAGCAAGCATTAACTAACATCGAAATTTTAGAAGCAGGTTTTCTTAAC
CCAAGTCCAAGTGTTTATCATTTGAAAGAAAACTAAAGCGTATTTAAATGACTTGAAAAG
CGCCTGCCCTACAGTCCAGACAACTGTGGGGCAGGCGCTTTTATTTATAAAGAATTGTGA
ATTTTAATATAAGAAACGTATATTGTTAGTAAAAATAAAAAAAGGAAAGACATCTTAGTA
GCACTACTTCCCCAAGAATTGCTACTAAAATGTCTTTTGTGATGCTCGCTCAATTGAAGA
GCCTTAAATAGGATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 431>:

GNMFI24F gnm_431

CCCCTAAGTAATGGTCAATTCGGAAAATATCTTGTTCAGGAAATGCAGCACGAATTTCTT
CATTTAATTCGTAGGCAGATTCATAATCAGAACCAAATGGCTTTTCGATAATTAGACGAT
CAAAGCCTTCTTCCGAAATAATATGTTGTGATTTCAAGTGATTAACAATGGTTCCAAAGA
ATTGAGGGGCCATAGCTAAATAGTAAACATGATTGCCTTCTAAGTGGTATTGTTCATTTA
GGCGATCAGATAATTCTTTTAAGGTATTATAATGTTCCGTATCATTCACATTATGTGATT
GGTAATAGAAATGACTAGAAAATTCAGTTGCCTCTTCGGCCGTGGGATTTAAGTCTTGAA
TG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 432>:

GNMFI25F gnm_432

CCGGTTCTTTCTAAAGGTGAAAATAAGGAAACGCCATCTTCCGTTCGATGACTAGCCAAG
GCATAATTGTTTTTCCCCATGACTTGATCTTCTTTCATGGTCCCGGCACCAGTTAATAAA
GCGACATTGGACAATCCTTTAAAAATGGGCAAATTAATTTCGACACTTGGTATCGCAATG
GCACCAATCACAGGTAAGTTTTTGTTTTCAAATTGGGCTTTCATCACCGCTTCTGTGCTC
AAGGACTCAACTGAATCAAAGTCAAACGTTGTTTCACGAGCCATATTTTTCTTCACATCA

GCTGGTTTCAACTTGCTAACGGCGTACGAGCGGCTATTTTGTTGAACCACCCAACTACGT
ATCTGATTGTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 433>:

GNMFI26F gnm_433

CCGGCGTAAATAAGAAGAAACCTTTACTTTTTTTAAACAACCAAGTACCTATGCCAAATA
CAGCTAATGAAATAATAATGCCAACATACGGATTCATGCGCGAACCTCTCCTTTCGCTTT
CTTCGTTGCTGCGGGTTCTTTTTCTTTTCGAGCATCTTTCATATGCAATAAAAAGGCGCC
CGTCCAACCAGTTGTTGCTAGTAACGCTAATGTTGCTACTAAAATAACAAAAATAATTTG
AACGCCAAATTGTTGCATAATCCCTAAAGAATTAACTAAGGAAATCCCTGAAGGAACAAA
TAAAAATGTAATAACCGTTGATAAGCTATTACCTAGCCCTTCCACTTGCTCCAATTTAAC
AACTATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 434>:

GNMFI27F gnm_434

AGTTTATCTTTGGTCGATTTTCCTTGATATATATATAATCTTCAGGAAATGCTCCTGTCT
GTTTAAAATTCGGAATTTCAGAAATTATTCTTTTTTGCTAAACTAGTTATAACTGGTTAG
TAAAAAGAAGTATTGGACGAATAGTGCTGAAACAAGTGAATGATCCAAAGTATAAAGAAA
AATGAAACCGATACCACAAGACAAGACTGTTGCTGAAAATGGTAAGTGATCATTCTGCTA
AGTTTAGTGTCTTAATGTTTAGTTAACTAAGAATTGTTGGATTGTACTTTAGAAAGAAGG
GACAATATGAAGCGAAGTAAATGGAAAGAATTGATAGTAACGGGCATCTGCCATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 435>:

GNMFI28F gnm_435

CCCTGTTAAATCGTCTTCATATTTTTCCATTTCTGTAAGTGCAATAGCTTTAGGATAATC
GAAGCTAGTTAAGTAAAGATGCGCATTCGGTACTTGCTTTAAGTCCTGAATCATCTCATC
CACATCTTTAGTTGCTAAAGCTGAAAATAAAATATGAATCGTGTGTTGTGGAAACTCTTT
GCGCAAGTTTTCAACTAAGCGTTTTACTGCATGATCATTGTGGGCACCATCTAAAACAAT
CAACGGTTCATCACTAAGACGTTCCATTCGAGCTGGCCATTGCGCTTTAGCCAACCCTTG
AGTAATGTCTCGTTCTTTAAATGGCAAATGTTGTAGTTGGCAATACTTGTCAAATAATTG
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 436>:

gnm_436

CGGAACGAATGATGCCTGAAGAGCGTTTATTAGTGATGCGCCGTTTATGTGCGAAAGATA
CTCCAGCCTTTATAGTATCCAGAGGACTAGAAATCCCCGAAGAATTAATTACAGCAGCAA
AAGAAAATGGCGTTTCTGTATTACGTTCACCGATTTCAACTTCCCGTTTACTAGGGGAAC
TATCCAGTTATTTAGATGGCCGTTTAGCTGTTCGGACAAGTGTCCACGGAGTTTTAGTTG
ATGTTTATGGACTTGGTGTTTTGATTCAAGGAGATAGCGGTATTGGTAAAAGTGAAACAG
CTTTAGAGCTTATTAAACGTGGACATCGGCTAATCGCAGACGATCGCrTCGATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 437>:

GNMFI31F gnm_437

TGACCAAGAAACGGTGGTCATTGAAATGGCGAAAGCAACGGAATTGAATTGGTTAAAGCA
GCAGAACGCAATCCCTTGATCACTTCTACTTATGGTACAGGAGAGATGATTCAACATGCG
CTCAATCATGGGGCAAAAAAAAATCATTATCGGCATTGGTGGTAGCGTGACAAATGATGGG
GGTGCAGGTATGATTCAGGCACTTGGTGCGCGTTTGTTAGACAAGGAAGGGCAAGAATTG
ACACGTGGCGGTGGTGCATTAGATAAACTGGCGCAGATCGATTTAACACAGTTTGATCAA
CGCATTTTTGCTACCGAAGTTCTAGTAGCAAGTGATGTGAATAACCCACTAACAGGGCCA
ACAGGGGCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 438>:

GNMFI32F gnm_438

CCGCTTGTCAATCTATCACTTTGGTTGTCTTCTTTTAAAGAAGGCAAGATTTCTTCTTTA
TAAAGGGTTTGATAGAATTCGTTTGATTGTTTATCCAAAGAAGCTTCATACTGATTTGTT
GCTTTGCGCCAGACAAAACTGAATTTATTGGCATCCGCTTCGATTTTTGTGCCATCAATA
TATAGCGCTTCATTGTCAATTACCTGATTGGTGATTAATTGACAGCGGAATAAGACAAAG
GCTTCTGCTAAAAGGTGAGCAGTTGTTTCCTGACTTTGGAAGCGATTGATGGTCCGGTAA
CTGACTTGTTCGTGGTTTGCTAGCCAACGCATACGATAGCTGTCATCTAATAGAAATCCA
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 439>:

GNMFI33TR gnm_439

AAAGCATTCTCAAAATTCTCTCGCTATACCGCAGACGGTAAACAAGCCGTTGGCGAAATC
AAACGACATTCATACGGCACACCCGCCGAAAATCTCATTATCAAGGGCAATAATCTGATT
GCCCTGCATTCGCTTGCCAAGCAGTTTAAAGGCAAAGTGAAACTGATTTATATTGACCCG
CCATATAACACGGGTAATGACGGTTTTAAATACAACGACAAATTTAATCATTCCACTTGG
CTGACTTTTATGAAAAACCGTCTAGAAATCGCCAAAGAGCTGCTTATGAAAGACGGTTCG
ATTTTTGTGTCAATTGACGACACCGAACAGGCACATTTGAAAATTTCACTGGATGAACTT
TTCGGAAATGAATCATTTCACCTGCACTTTTATTTGGGAAAAAAAGACAGGTGCGTCCGA
TGCCAAACAGATAGCGACTATTACATAGTTTGTCTTATGTTACACAAAGAACTTTAAAAC
AGTTAAATTAGATTTAAACACGTTTTCATATGATACAGAGAGATACAAATTAAGTGATAA
GTTTGAACACGAGAGAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 440>:

gnm_440

CCGGCAATCCATATGTGATGGGCGCAATTTTAGGTGCTATTATCCCGATTGTTGGTATGA
CACCGTTAAGTTCAATGGTTTTAACTGCCTTGATTGGTTTGACTGGTGTACCAATGGCTG
TCGGTGCGTTGACTTGTTACGGCAGTTCCATTGTCAATGCGGCGCTATTTAAAAAGTTAA
AACTAGGCACAGCTTCAACCCCGTTAGCTGTGGCAATTGAGCCATTAACACAAGTCGATA
TCATCAGTTCCAATCCAATTCCTATTTACGCAACGAATTTATTTTCAGGAATGGTTAGTG
GCATTGTAGTGACCTTCTTTGGCTTAAAAGTACCTGTrACAGGAATGGCAACACCGTGGG
CTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 441>:

GNMFI35F gnm_441

CCGACATGTGGTCCATCACCCGAGGATGTAACGTTGCTGGTTGGACATTCAATGCTTGCG
TGTCTTCTTCAAAGGCTTTGATAAAACGCTCCGCCACTTCCGGCGCAGTAATTTTCAATT
CTTTAGCTGCCTTGATAATTTTATCATCGACATCTGTAAAGTTCGAGACATAATTCACTT
CATACCCACGATATTCAAAATAACGACGAATCGTATCAAAGGCGATCGCACTGCGCGCAT
TACCGATATGGATATAGTTATACACGGTTGGTCCGCAGACATACATCCGAACTTTACGCG
CCTCAATTGGCGTAAATACTTCTTTTTCTCTGGTCAATGTATTATAAATTTTAATCATGC
CCTTTTTCCACCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 442>:

GNMFI36F gnm_442

CTTTAAAAGAATTCTTTTCTAATATTGATGAAATTACAGATTTAATAAAAGAAAAGATGG
ATGAAACTGGTATTAAACTATTGTGGAATACTGCAAATATGTTTTCAAATCCTCGTTATG
TCAACGGCGCACATACTACAAATAATGCAAACGTATACGCTATCGCAGCTGCTCAGGTAA
AAAAAGGTTTAGATGTTTCAAAAAAATTAGGTGGAGAAAATTATGTTTTTTGGGGTGGAC
GTGAAGGATATGAAACATTACTAAATACTGATATGAAGTTTGAACAAGATAATATTGCGC
GTCTATTCAAAATGGCTATATTTTACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 443>:

GNMFI37F gnm_443

CCCGTTTCACTCAATTACAATCTCTACCAACCAAGTAGCGGACCATCTAATTGATTTAGG
GCTGGTTAGTTCCTTTGATATGTGTAATCAGCGGATTTTACCTTTTATTGAATCCGTTAG
TAAAAATGCGGCCCTTAACAGTTTGCTAAATTATCGCGATCCTTTAGGTACGCACTTTCA
ACGAGCAACCGCTGCCGAATGGCTTCAGACACAAGGCGTTCGGACCAATGCCGAAGAAGT
TGCCATTGTATCTGGTGTCCAGAATGGACTGGCCGTGACGTTAGCCGCCGCTTTTTCTCC
AGGTCAGCGGATTGGCGTAGATCGATACACGTATTCAAATTTTATTGAACTCGCACAGCT
TTATCATTTAGAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 444>:

GNMFI38F gnm_444

CCTGAATTAGTTATGATCATTTCTACGCCAGCTATTAAACTTGTGACGACTGTTCCTATT
GAATATGTCATTTTTTTTATTGTTCAGCATCTTTTTTATCTAGTGGTAATTGGGGTGATT
GAGTTTATACATTGTTTGTTTACATTCTTTTTGAAACGAAGAGTGAAACAAATTAATAGT
CTCAAAGTGATAGGTGATAGTTTATTAATGATTTTTGCTACTTTTTATTTTTTTGATTTT
CGTTATGGTTTAGAATTATTTCTAGCAAACCAATTGTGGAGTATCTCCTATATGATTCCT
ATCACTTTTTTTCTAATAGTGGTATGTTTAATGCTTATTAGTATAGGCCTATTAAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 445>:

GNMFI39F gnm_445

CCTTCAATTTTTACTGTTTAGCTTAAGCTGATTTGAATAGAGTATCAATTTCTTCCCACG
GGGAAAAGTCGAAGAGACCAATTTCTCTTCGACTTTCTTTGTATAAAGCAGAAACAACTT
CGATTCCTTTAATCGTTACTGCAGCTGTATAGGTGGACTGAAAGTTGTTGCCATAAGGAA
GCTTCCCCTTCAACTGTCGGTGATCCTGTTCAAGAATATTATTGAGGTATTTCGACTTCC
AATGCTTCACTTTTTGGTATAGAATTCCTTCTTCTTTCAGCTCTTTGATCGCTTTTAATG
AAGGAGCATATTTATCTGTTACAATGGAACGTGGTTGACCGTAGACTCTGATTAGACGCT
TGAAAAAGAGCTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 446>:

GNMFI40F gnm_446

CCAGAAATCATGACAATGTGAAAGTATCGTATGCCTCATTGGAACGCTATTTAGAAGATA
TTCATCGCATGGTGGAAAATGGTTTACTTTCTGAAGAAAAAGAATTTTATGCGCCTGTGC
GCTTACGTGGCGGGAAACAAATGTCTGATCTGCCTAAAACAGGTATTCGCTATATCGAGT
TGCGTAATTTAGACTTAAATCCTTTTTCACGTTTAGGCATTGTGGAAGATACTGTGGATT
TCTTACATTATTTCATGTTGTATTTATTGTGGACAGATGAAAAAGAAGAAGCGGATGAAT
GGGTGAAAACTGGGGATATTTTTAATGAACAAGTGGCTCTTGGTCATCCTCATGAAACGA
nTTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 447>:

GNMFI41F gnm_447

CCTCCTTGGCATGGCAACTACTGGAACTGATGGCAAATACACAGTGACTTTAGAGCCAGG
GAAGGCCTCAGCTAACGAAACAATAACTGTCGTAGCGAAAAATGCAACAGGAAAAGAAAG
TCAGCCAGCTACAGCAACTACACCAGTCGACTTAGCCACACCAACCATTGATTCTATTAC
CGGAAATTCTAGTAAAGGTTACGAAATCACTGGAACGGCGGAGCTAAAAACCACTATTGA
TGTCCGTGACGCAGACGGAACCATCATTGCTGCTACAACTGCTAACGAAACCGGCCAATA
TACGGTGACTCTACCAGCTGGCGTAGTGACACCAGGAGAAACGATTACGATTATTAGCAA
AGATGGCGCAGGTAAnTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 448>:

GNMFI43F gnm_448

CTGCTTAAAAATACTGTTTTAGTGAGTTTAGGTACGAATGGTCCTTTTACAGAGGCACAA
TTTGATGAATTTATGAAAGCGTTAGGTAATCGAAAAGTTTATTGGATTAATGTTCGCGTC
CCAACTAGAAGATGGCAAAATCAAGTGAATAGTTTACTTAGTCAAATGGACAAAAAAATAC
GATAACTTAACGGTCATTGACTGGTTTAATTATAGTAACGCCCATGATGATTGGTTTTAT
GATGACCGAGTTCATCCAAATGTGGCAGGTGGCGAGCAATACACACACTTTATCGCGGAG
AAAATTTTACAGTAGCAAGAAACTTCCAGCTCAGATGAAAGGGGCTGGAAGTTTTTTGTT
ATAGGAAAAGCAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 449>:

GNMFI44F gnm_449

CCGTGGAAAAACTTTTGTTAAAGCTAGAGCTAATAGATAAACGAATCGAACGCACATTAT

TTCGACAAAAACATTTTGAGCGGTTTTGGGCTACTCTTAAGCCTTTAGAGCAACAATTGC
TCATTAGGCGATTCAAGTATAAAGAAGAGGTTAATTGCCCTCACAGGCTTATAGAGAGCG
TATTAGATGAGATTGAAGAGATAGAAACAGCTATTTGTTTGATGGAAAATATAGAATTAG
AAGAAAACGAGCTTTCCGACGATGTAGAAGAAAACTTAGAGAGGATGTGTGACTTCTTTG
CTTTATGAACGTATCCGTCCAGAGTTTCATCTTGCACGCTGGATATATTACGAAAAAGCA
CG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 450>:

GNMFI45F gnm_450

CCTGATCCTAAAAACGGCTTTGTTTATAGCTTCCTCATCGTTGAAACAATTCAAAATGGT
GCAGAAATCTCAGCGGGGAAATTAGCACCCAATGAACTAGGTGTCACAGCTGTGGATGAT
TATACATTAAAGGTGACGCTCAAAGAGCCAAAACCGTACTTTACGTCCTTGTTAGCTTTT
CCGACATTTTTCCCGCAAAATCAAAAAGTAGTCGAACAATTTGGTGCGGACTATGGAACT
GCTAGTGATAAAGTCGTCTATAATGGTCCGTTCGTGGTAAAAGATTGGCAGCAAACAAAG
ATGGACTGGCAACTAGCAAAAAATAATCGCTATTGGGATCACCAGAACGTGCGCTCAGAC
ATTATCAATTATACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 451>:

GNMFI46F gnm_451

CCCCCATTTTAGAACGGATCATGAATCAATATCAAGAAATAGCTGCGGCTTTACGCCAAG
CGTTGCCGCAAATTTTTCCGCAAAAGAATCTATCGGAAGAGGAAATTGCCTACATGGTGC
TTCATTTTGCCAATTCTTTAGAACGGAGTCCCAAAAATTATGGAAGTTGATATTGCTGGTT
TTTCTCCTAGCGGTTTGGCTTCGACAAGTATGCTGGAAATGCGATTACGGCGCTACTTTC
CTTTTATCAACCAGATTCATTTTTTTCGGATTGCGGATTTAGGTAAGGTGAATGTTGAGG
AAAACTATGACTTAGTGATTTCCACTTCGTTATTACCAGGATACAATGGTAAATATAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 452>:

GNMFI47F gnm_452

CCCGTTGCGCTACTTGCTGATGTTGCTTCCTTAGCGCTACTTGCTACTGTCGGACTACTT
TCAATCGTGATTGTTTCCGCAACTGCGGTCGCGCCAGAAAAGGCGTTAATCACTAAAGAA
CTACACAAGCCAATGGTTGCTAATCGTTGCCACTTAGTTTGCTTCATGTCGTCCCTTCTT
TCTCTGGACCATTCCGACAAGACCAATCAAGACAAGACCAAGAATGCTCAGGTTTGCCTG
ACTCTTGCTTCCTGTACGAGGGAGCTGCGAGCCAGCTGTGGTGGTCTGTGTCGAACCACC
ACTTCGTTGATCTCCTTGCAGAGGACCAGCTGGTTCCTTGGGATCCGCAGCTGGCTCATC
TGTTTTCGGTGGGGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 453>:

GNMFI48F gnm_453

CCTAAGATTTGGCTTATGAGCTTGGGACAGCGCTTAAAAACGTTTGTCTCTTTGCTGATA
AGTCCATTTTTTTATAACGGAGGTGGCTAGAGTGAAAGCCTGTGGCATTATCGTGGAATA
TAATCCCTTTCATAATGGACATCGCTATCATGCCCAACAAGCTCGCCAACAAAGCGGACT
GATAGTAGTGATTGCTATAATGAGTGGAAATTTTTTACAAAGAGGAGAACCAGCCTTACT
AGATAAGTGGGCCAGAGCAGAAGAAGCTTTGCAAAATGGTGTGGATTTAGTCATTGAATT

GCCGACAGCTTGGTCGGTACAGTCTGCGGATTACTTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 454>:

GNMFI49F gnm_454

CCGGAGCGAGTACCCAAAAATCGCGTGGGAACTTTTGCTGAATATATTGCAGTGGATCAA
GCGGCTGTAGCTATGAAGCCGAAAAATTTAACGTTTGAAGAAGCTGCGGCCATTCCGTTA
GTCGGTTTGACAAGTTATCAAGCGCTACATGATATTATGAATGTACAGCCAGGCCAGAAA
GTCCTGATTCAAGCAGGTTCAGGAGGGATTGGAACCATTGCGATTCAATTAGCAAAACTA
GCAGGCGCTTACGTTGCCACCACAACGAGTAGTAAAAATAAAGAATGGGTTCAAGCGTTG
GGAGCAGATGAAGTGATTGACTATCGGACACAAAATTTTGAAGAAGTTTTATCCGACTAT
GATTATGTGTTTGATACAATGGGGGGACAATCTTAGAAAAAGCTTTCTCAGTGGTTAAA
CCTCAGGGAAAAGTTGTTACATTGTCAGGCATTCCCAACGAACGTTTTGCTAAAGAGTAT
GGCTTGCCGCTTTGGAAACAATGGGCCTTTAAAATAGCTACCCGCAAGATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 455>:

GNMFI51F gnm_455

CGGAATTGTATTTACTGCAGAGACAGTTTAAGGAGGACACGCAATGAGCAAAGGTCCGTT
AGTCACTCGGACAGAGCTTCGCAAACGCAGAGAAGCAGAAGAAAAAGAAGCGGAACGTCG
TCAGCAAGAAGAGCAGAAGCTGGCGGAAAAAGCGTATAAGCGAAAAGAAAAAGAAATTTC
GACGTTTTATCGTAAAGAAAAGAAAAAACAAAAACCGATCAACAAGTCACGAGTAGGAGA
ATACTCGAAGCGTCGAGAACGGAGTACTTGGTTAAACAAGGCAATTATTATTGTAGCGAT
TTTATTAGCCGTTGTGGCATATATCGTTTTGAATTTATAGAAAAGAGGAATCACTATGAA
AATTGGAATTATTGGAGCAATGGATCAAGAGGTCAAAATTCTAAAAGAAAAATTGACAGA
CACGATGTCATGGGAACGAGCAGGCGCTTTATTTGTTTCTAGTTCGTTAGGAAGACATGA
GGTGATTGTAGTTCGTTCAGGAATTGGTAAAGTGGCCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 456>:

GNMFI55F gnm_456

CCGGGGTTGAAGGTGTACATGGAGAAAAACAAGTTGAGAAAAGTGGGCTTAACTGCCCTG
GAATGGCTAAAACAACATCCAGAAATTAAACAACATAAAGAATCAAGTCTCTATGAACAG
TTGTTTGCTAGTCAGCAATGGCAACAAGCACAAACGATCGGAATGATTCGGTCGTTACCG
CTAGAATTATCAACACAGCCAATTTTCGAACGGGCCATGCAAGAGAGCAAGCAAGTGGCG
GTGCCGCGAACATTTAAAGGAGGCAAAATGCACTTTTATCAAGTCTTTCCAGAGACGGTT
TATGATACCAGTGCATTTGGCGTGGAAGAACCTCCGTTAACAGCGGCAGAAATAACAGCT
ACAGCGATTGATTTATTGATTGTGCCAGGGATTGTTTTCAATCGTGCTGGCTATCGAATA
GGCTTCGGCGGTGGTTTTTATGATCGAATTTGGTACATTTTTCGGGGCATTCATGTAGTT
TAGTTTTACGTGACACTCCCATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 457>:

GNMFI56F gnm_457

CCGGAAAAGTCGCTGGCCTTGGCACCCACGAAGAATTACTTACTTCTTCTAAAGAGTATC
AAGAAATCGTTGCGTCACAGGAGGAGGATACCATGCAAACTAAAAAAAATTCATTTTGGTG
CCTTCTCACGTTTTAAGCCGTATTTACTACGCTATCCAAAAGAAATTATTGGCGCCTTAA

TCCTAGGAATTCTCAGTGGTTTTTCGACTGTCCTCATGACTTATTATATAGGTAAATCCG
TTGATACAATGGTGGGTAAAGGACAAGTCAATGCTGCGCAACTCATCAAAATTTTAGGTT
TATTAGCAGGGATTTTACTCGTAACCGTTCTAAGTCAATGGCTGATTCAACGTCTCGGTA
ATCGCGTGTCTTATTTATCGACCACACAGCTGAGAAAAGATGCCTTTGCCCATTTAAATC
AATTACCGTTAAGTTATTATGACCAAACGTCACACGGAAATATCGTCAGTCGCTTTACCA
ACGATATTGACAATATTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 458>:

GNMFI57F gnm_458

CGCGGTCGTTTATAAACCATTAGAACCGTTAGACACACCAACGATTCATTTTGAAAAATT
ATATGGACCTGATCAGAACGGGGCATATATTTATCGAATAAACGACTAGTGATTCATTCA
TGGAATGAGGTTTGAATATGGGAAAAGTATTGAATAGAATCGGTCGACTTATTTTATTAG
TTACAATGATCGGCTCGTATACGATGTGGGTCGTAGGAATTGATGCGCCAGTCACAAAAT
ATATGTATGCCAATAGTTCAATTTTATTATTAATAGCAGTAATACTTGTACTGCTATTAA
ATTGTACGATATTAAAATTTATTGACTGGCTGACCGTAGCGTTGGCGCTAGCAACCTGGC
TCTTGTTTCACTTTACGGAATCAATCCGTCATAGCACGATGCAAACAGATACAATGATTC
CTTTAATTATTTTATTGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 459>:

GNMFI58F gnm_459

CCTGCTGTGCCGTTGCGCCAGAAGGAAGCATCAGCTAGAAGTGCGTCAATTTTTTCTTGG
AAAACAGACCATTTTTCCTCAGGAAATTTTTTTCAAAGCGTGTTTTTGCCGCTTTTGCA
AAATTTTTCAAAACAAGCGAATCTTTTTCTACGTTTTGATGAGCGACATGGGTGTTAAAC
AAGAAAGTAACAAACGGTCCATGAACTTCTTCAGAAAATAATGTTGATAAGCTATCTTAT
TTTTGATTTGCCATAATAAAATCCCCCTTCTAAAAGTAAGTGTAGCACAGGAAATCGAAT
GTTTAAAACAATATGTTCAATAAAAGAAAACGCTTCAACTAATCTCAATAAAGGACTGTT
AATGGTGTTCTAATAAAAGTTTTATAAAAAATATAGCTGAAACTCATGATAAAAAAGGCA
CAAACCACTATACTTACGTTATGCCAATTATCCCGAATTGGTATGTTCATACTTACTCCT
ACCAAGAGTACATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 460>:

gnm_460

ATCTATAATTCCTGAATCTCAAAGATCAATTATTCCAGTTAATCTATTATTGCCATCTAA
CAATAGATGATTACAACTAAAATCATTATGGCATAATCACTTTTTACCCTCAAAAACTGT
TGTTGCATTTAGTCTTTCCATAAAACTATCTATATAATCTTTTTCTATATCAGTTAAATC
ATTATAAATAGTTTCACGCAACAATATATACTCTTCTAATACATTTTGTTTATTATCAAT
AGTACATTCACTAATATCTGTATAATCTAAACCGTGCATTTGTCTTAAAAAACTGGCAAT
ATCTCGTTTTAACAAATTTTGTTCTTCTTCTGACATAGTAGAATAAATTTCTGGTGTTAA
AAAAGTTCCTTTAATTTCTTTATAACCTAGTATAGATAATTCATCACTAATATACGAATA
TTCAATATTAGGAATTTTTACATTAGTTTCTAAATTTGTATTTAAAAAATTATATATTGC
TTTTTCTTTTGCATAACCTTTTTTCTTATTAGTACTAAATTTTGTTTTAAAAATGTATTC
ATTATTAACTAAATATGCCACACTATCATAACCACTACCGATTATTTCAATACTATCTAC
TTTGAAATTATCAAAGTAATGCTCAATTAAATATTTCATTGCCTTAACATTTGTGGCATT
ATCATCATATCTATATTCCATTAAATAACAATCTTCTTTTTTGCCCTCGTGTAATTCATG
TTCTGGCAAATCTTCAATAATTCTAAAACCAGATTTTTGGTATGCCCTTATTGCTCTATG
GATTATTTTTATGAGGGACTAAAATAACTGCATTAGCATTTCTTTCGATTTTCAAAAATT

CAAAAATCAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 461>:

GNMFI60F gnm_461

CCTGCAAAGGCTCTTACTTCTTTGATGTCTTTAAACTCCAACTTATGCCCTATCACATTT
ATTAAGTTTAGCACCCTTTGGTCAGTTATCCCATCTAAATGATCTAAAAAATTAGAATAA
TTTTCTTTTCCTAAAGCTTCTTGCATGTTTGTTTTGTCTAATACGGATTTTAAATCGAGT
TTAGTTGCACTAACTTTTGGATGATTTAATTTAATACCCCACTGCTTACTTGCGAATTCA
TCCAATAAATCACCAAACATCTCTTCATACAATTTATCTATGTCATCGCTAATTTCAGGA
ATAATTGGTATTTCAGTACAACGGCAACGTCCATGATACGGTGGATGCCAATCATCTTTA
ATCTCTTTTCCATGACGTCCACCACAAATAGAACAAACACGCTCATCTTCTGCCGACCAG
CTTTGTGTTTGCTTAACACCTATATCCTTTAGCGATTTTCTTACACCTTCTACCGCAAAA
TGTGAATATTCCGTTCTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 462>:

GNMFI61F gnm_462

CCGATTAATAATTTTATTCAAAAAGCGCGTCGAGCAACAAAAACCATCGGACTTGGTGGC
AATGGTCAGTTTTTTCGGTTATCAATGATTACCGAACACTTAGGCTATCAGCCTTGGGGA
AATGCTTTGTTGGATGACTATGAGTTAACCATTAAATTAATGCTGAAAGAGTTATCGATT
GCTTATATTGACGAGGCCTTTATGGCTCAAGAAGCACTGAGAGATGTGAAACGTTTTATT
CGTCAACGnGTCGTTGGGTTCAAGGAAATTTAGATTGTCTAGCGTATTTACCCAGGGTGA
TTAAATCAAAGTCATTAACGCTAAGGCAGAAGTGTGGAATCTATTATTTTTTAGCGCAAC
CCTTTATTAATCTCGTAGCGGGGATGCTCGTTTTTGTCTTAACTGGGCTTCAACTGCAAC
ACTTGTATAGGTTAGGCTTTTCGTTATCGCTTGTCATTAGTTTTGTTTTGGCCGTCAGTA
TTTCGTTAGTTTTCGGCATTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 463>:

GNMFI62F gnm_463

CCCGGTTTGCAAGCTGCGCAATGCTTAACGTTAGAAGAAGTAGCCAAACAAATGGCTGCT
GAAACAATCGATCAATGCCTGTTGCCCATTGAGACAGCAGTAGAACAATTCCCACGAATT
GATTTATCAGATGAATTGTATCAAAAAGTAAAAAAATGGCATGCGTTTGCACAAAAAAAGAA
TTAGGAATAAAGGCAATGCCAGAATCCTTAGTCGCCTTATTTTACCAAAATCAAGTGGTT
AGTTTATACATGCCACACCCAACGCATGATAAATTATTGAAACCAAGTAAAGTTCTACGG
AACAATTAAATAAAAAAGAAGGAAGTTTTTGCACATGCAAGTTATTCAACTACATCATCC
CTATGAACCCAATCAAATTCCTAATGAAGAAGTCGTGATGGTCCTAGGCTTTTTTGACGG
TGTTCACAAAGGCCACCAAAAAGTAATTGAAACAGGTAAAAAGATTGCGGAGGAAAAAGG
CTTGAAGTTAGCTGTGATGACCTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 464>:

GNMFI64F gnm_464

CCGAGGGGATTGGCCTGATGGAACGGAAAAAACAGGGGCAGGGACATCCCGCCCGGATAT
ACGTTAAAAATTTTATCTTGGAACCGGAACCCACCGCGCCGGTTCAGACTGCGGAAAATC
AGCAGTCAAGACCGCTTCCCAGTGCCGCCGTCAAGACTGCTGAAAAACCGCAGTCTGCAC

CACGGGAAACCAGCGGTCAACAGTGCGGCATTTCCGCCCCTAATAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 465>:

GNMFI65F gnm_465

CCGGATCTAATCCTAGTTGTCCAGAAATGTACAACGTATTTCCCGCTAAGACAGAATGTG
AATAAGGTCCTACAGTAGCTGGTGCCTGTGCAGAATTAATCATTTTGTTTGTCATCGTTT
TCCTCCATTCTATGATTCTTTATTTTCAATTAAAGTCCCTGTTTTTCCAGATAATCCTTC
TTTGGCTTTTTCTAATAACGTAATCAATGTTTTTCGACCTGGCTTAGATTCAGCAAACTT
AATCGCTGCTTCAACTTTTGGTAACATTGAACCTGGAGCAAACTGACCTTCTTGCGCATA
TTGTTTCATTTTTTTCTGTTGAAACATTCCCTAAGGCTTCTTGATTTTCTTTACCAAAATT
AATACAAACTTTTTCAACTGCTGTTAAAATCACGAGCAGATCAGCATCCACTTGTTCAGC
CAGTCGTTCACTACAAAAATCTTTGTCGATGACTGCATTGACACCTTTTAGTCGGTTCCC
TTCTTGAATGACTGGGTATGCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 466>:

GNMFI66F gnm_466

CCGAAGAACTTTTTTTGAACCCACATTGACAAATTGCTCAATTGCCTGCGTGGCACCGCC
ACGGTTATCCAAGAGAACTTGCCGAATATTCCTATGCTCAGTGGTTCGATCAAGGACAAC
GATCGAATGGCCTCGTTCAGCAAACTTTTCAATTTCTTTTGTTGGAAATGTCCAATCTAA
AATAATTGCCCCATCCACCATTTTTTCAGGAATGATAAGATGTGACTTTTTACCGCTGCA
GACAATCATCTCATAATCAAACAGTGCTAAGCCTTTCTTAATTCCCTCCAACAATTCACC
ATAAAAACTACCGCCATAATCAGCCAAATAGACACCAATAATATTGGTTTGACGACGTTT
TAATGTGCGAGCGGGCATGTTAGGAACATAGTTTAGCTCTTCAGCAATTGCTTGGATGCG
CGTTCGTGTTTCTTCAGTTACCTTTGAACTACCATTCAATGCGTAAGAAACGGTCGAGAT
TGATACGCCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 467>:

GNMFI67F gnm_467

CCCTTGATTTTTAAGAATAGATACAGTAGCATAAGAACAACTAGTTCTTTCACTGGCAAT
CGTCAATGTCATATAGAAAAGAATGCCCTATCTGTATTATCTGAAAAATCAAACAATCAT
AACCAATTAGAAAGGTGGTTATTATGTATAACTTATTAACCAAACAGGAAATTCAGTTAC
TTTCCCTAATTGAATACTTGTATGACAGTAAAGAAAAAGTCCCCATGCAAGTACTCCGAC
GAAAATATGAATTTTCCCATTACAATATCAACAATTTATTGAATCAATTAACTTTGTTAA
TTTCTCGAGTCAATACACATGAAAATGTACATATTCGTATTATTAATAATCAACAGTCCA
TAGAATTAGTCGCGGATGAAAATATCCCGATTGAGTTAATGAAAGAAGCTGTTGTCCGCG
GGTCACTAACCTATATGTTAGCCCAGGATTTACTTTTAATACGCTACACTTCAGCCAAAG
ATTTTTGTGAAGAGCCTTTATTAACTTTTCTATTTTTTAACAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 468>:

GNMFI69F gnm_468

CCAACTAGAAGAAGAAAATCAACTATATCAGCAATCCATTAAAAAGCTAACGGAGCAATT
ATTAATGCAAACCAATGAAGTGGAAGCATTACAAAAACAAGTAGTCGAAAAAGATGTTCA
ACTTAAACATGTTAAAGAAACATTAAGTGATAAAGAAACAACTATCACTTCTTTACAGAA

ACAATTGTCTGAAGAAAAGATGCAACAGAGACAGACCAGTGAAGAGAATTTAGACACAGC
CGTTACGCTTTCTCAAAAAGAAATTGGCGAAGTGTTATTAGAAGCCAAACGTCAAGCAAA
AGATACAATTAGTCAAGCCAACCAACAAGTTGCAACAGTTCATGAAGAAATGGAACAACG
TTTAGCAACTTTTACACGCATGAAGCAAGTGGCAAGATAGTACCAAGCTTATTGTGAACA
AATGCAGACAATCAAGAATGAATCAACAGGAACGTACCAACAGATAGAGCAGTTATTAGC
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 469>:

GNMFI71F gnm_469

CCGGTGTTATTCATGTTTGATTATTCGAAAGAACCAGTAAATGATTATTTTCTAATCGAC
ATGAAGTCTTTTTATGCGAGTGTCGAATGTATAGAAAGAAATTTAGATCCATTAACAACA
GAACTTGTTGTTATGAGTCGAGGTGACAATACTGGTTCAGGATTGATATTAGCTTCTTCT
CCTGAAGCAAAAAAGCGGTATGGTATTACAAATGTGAGTAGACCACGTGATTTACCACAA
CCATTTCCTAAAACACTACATGTTGTTCCACCACGTATGAAACTATATATCAAGCGAAAT
ATGCAGGTAAATAATATTTTCAGAAGATATGTGGCTGATGAAGATCTACTGATTTACTCG
ATCGATGAATCAATCTTAAAAGTGACCCGATCACTGAATCTTTTTACGACTGAAGGAACA
CGAAGCCAACGTAGAAAGAAGCTCGCTCAAATGATCCAAGAACGTATTAAAGAAGAGCTA
GGATTGATTGCTGCAGTAGGTGTCGGAGATAATCCCTTGTTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 470>:

GNMFI72F gnm_470

CCGGCTCCAACGTACCAACTGTTTTTGAAATGATTGATGATGCCAAAGTAATTCCTGGTT
TAACCTTAACAGAAACTGTCTCTTTAAACTATGCGATGGAAGAAGAAATGGCTTTAACAC
CCGTCGACTTTTTATTGCGACGGACCAACCACTTATTATTATGCGTGATCGTTTGGACCA
AGTGAAAGCGGGAGTCATTGAAGAAATGGCACAGCATTATCAGTGGACAGCGGAAGAAAG
AGCACGACACATTGAAACATTAGAAAAAGTAATTGAAGAATCAGATTTAAAAAATTTGAA
AGTAGGGTGAAGAAAAAAATGGGAACTTCGATGATGACACAATTATTCGGTGAATTTTTCG
GAACGATGATTTTAGTTTTACTAGGGGATGGCGTCTGTACCGCAGTTAACTTGAAGAAAA
GCAAAGCCTTTGCTTCTGGTTGGGTCGTTATTGCTTTAGGTTGGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 471>:

GNMFI73F gnm_471

CCCGTCTTAAACGGCTCTACACTAGAGAGGTATGTTACAGCATATCTCTCTTTTCAATGC
TATTATAGCACAACGACCATCAAAAGACCATCAATAAAAATGCCCGAGCCTCTTATTTTT
CTAAGGCTCGGGCATTTTTATTTTAGGGGCCAGTCACTAAATTCCACGTGACGGCGGCTT
GGTATTGTTGGCCAGCCATACCTTGGTTGGCTGGCACTTCTAGTTTGATGTTAGCAAACG
TGAAGTCCAACTGATAGACGTCACTGCCTGTGAACTGTTTGTTTGCGACCACCGCTGTTG
CGGTATTGTCGGCGGTTAAAGTCACGGTGCTGGTCTTGCCAAGTGGTGTCCTGGTTTCTG
TTGGTTGGTTGTAATCGGTAAAGCTGGCAGCAGCGGCCGTTCCTAGCAACAAGCGGGTCG
TTGTTGGCAAGCTGTCTGTGGCTGATTTTGGTTGCAATAGCTGGGCCGTTAAACTCCAAT
TGGCTTGGCTAGTATTCAGGCGTAAATTAGGGTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 472>:

GNMFI75F gnm_472

CCAGACACAGAAATTGAACGCAATATGATTGAAACGAGTCAACTTGTCAGCCGTCTAAAA
GAGAAGTAGGGGTGTGCAAGCAAATGAACTTAGAAGGATTAACGACAGAAGCCAGAAATG
AAGCGACTAAAAAGATTGACCAAGTGTCAACATTAGAAATGGTAACTTTAATAAATCAAG
AAGACCAAAAGGTAGCACAAGCAATTGAAAAGGTGCTTCCGCAGATTGCTGCAGCAATTG
ATGCAGCGGCAGAACGATTTAAAAAAGGGGGCCGTTTAATCTATTGTGGTGCAGGAACGT
CTGGACGTTTAGGTGCTTTGGATGCGATTGAATTAACACCCACATATAGTGTGTCGCCAG
AACGCGCATTTAGTATTTTAGCTGGTGGTGAAAAAGCAATGTATCAAGCAATTGAAGGCG
CTGAAGACTCGAAAGAATTAGCTATCGAAGATTTAACGCAACATCAATTGACTGCCCGAG
ATGTCGTAATTGCGATTGCTGCTAGTGGTCGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 473>:

GNMFI77F gnm_473

CGGAAATAATAGGGATTCTCTCTGCTTTATTAATGTTTATTTTTGCTCCTACATTAAGTA
AAATAAGTCCAATAGTTGATCATACTGCGGGTATCACAGCAATCCGTAGCCTTTATTTTT
TTTTATTAATTATTCCTATACTTAGCGCACTAAGAGGGTATTTTCAAGGTCTAAATTATA
GTTTTTCTTTTGGTGTTTCCCAACTACTAGAACAATTAGTTCGAGTAGTTTGTATTTTAG
TAGGAACCTATCTAATTATAGTTCAATTTAATGGTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 474>:

GNMFI78F gnm_474

CCCGGTCAAGTTTACTTAGCAAAAGTTGTCCGCATTGAAAAATTTGGTGCGTTTGTTAAC
CTAATTAAAGGCAAAGATGGCTTGATCCATATTTCTCAATTAGCAAACGAACGTGTGAAC
AACGTTGAAGATGTCGTGAAATTAGGCGACGAAGTCCTTGTCAAAGTAACTGAAATTGAC
AAACAAGGCCGTGTCAACGTGTCAAGAAAAGCGTTATTAAACGAAGAAAACAAAGAAAAA
TAATTTCTTTTTAAACCAACGAAAACCAAGGAAGCTTCCTTTCTTTTCGTTGGTTTTTTC
GTTGAAAACAAGCCCTAAAAAAGAAATGATAAAAAAAGCTAAAGACGATCGCCAACTCTT
TTGTTTATAGTCAATTAGTGGTAAAATTAATACTATCAGTCTGAAGAATATCTGGGGTGT
CTTTGTGAAAAAATTTAATCCAAATAAAAATATAATCATTACCTTAATTTTAGTCATTAT
TTTAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 475>:

GNMFI79F gnm_475

CCTTGTTAAAGTTAAGAATACAGCGTTGACATCATCCATTACCCCATAAAGTAAAGCGAA
TAATGAGATAACCACAGATTGTGTTAACACAACGTTACGAGAAACGCCATATTTATTTTC
GCGATGGAAACCAAATTTTGGTGGCAATAAGCCATCACGAGCAACTTGAATAATTGTTTT
TGATGGTCCAGTAACCCAAGCAGATAATTGTAATAACACACCTAAGAAGACCATGAAACT
AAAGATATTACCAATAATTGTTGGTAAACCTAAAACGTCACAATAAAGCAAAATTGGTTG
TGTAATGTTAGACAATTCCATTTTGCCATTTGGAACAATATTAGCTACATACATTGCATT
AATCACGTTTAATAAAACTCACCCAATTAATGACATGAAAACGCCTTTTGTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 476>:

GNMFI80F gnm_476

CCTGGAAAATTGTGGTGCGATGACTTTTTAAAACAATCGTACTGCCTAATTTTGCTTGTT
GGCGCTGGTTATTTGCCAGTGTTTGTTGCTCGATAGGTAAGTGACTCAAACGTTGCCATT
CCATTTGATGAGGTGTGAAAACAACTTTTTCAGGATAGGTAAGGGAAAAATTGCCTTGGC
TAAACAGGGTAATTGCTGAGCCATCGATAATTAACCATTGTTGTTTTTGATGTTGGGCGA
GTACCATCTTTAATATTTGTTGTGCAGTAGCATCTAAGCCTAAACCTGGACCAATTAAAA
TAACATCCGCTTGCTCTACGACGTTCGTCAGAAGGACTGTTTCTTCAAAGCCCACGACCA
TCGCTTCTGGGCATCTTGCATGTAAAGGCCCGTTATTTTTAACATCAGTAATCACAGTGG
TGAGACCAGCGCCACTATTGATACACGCTTCGGTACTCATGATGATGGCTCCGCATATTG
TCGGTTTCTCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 477>:

GNMFI81F gnm_477

CCAAAATTTTGGTAAACTAAAAGATGGAAGTATTGGGGTAAAAGGTGGTTGGCGAATTTA
TTCAAGCGGGCCGGGAATTTATTTAAATCAATTAATTACAGCTGTTTTAGGGATTCGGCA
AAAGGCCCAAAGTGTAGTTTTTGATCCCATGTTACCAGAAAAAATTGTCTGGTTTAACACT
AACTTACCAATTGTTTGATAAACCTGTCACATATAAATTTTATCCAAATCAGTCAGCGAA
AATAGTTATCGATGGTCAAGAGGTTCCGTTTAAGTTTGAAGAAAACCCTTATCGAGAAGG
GGGAATGGTAGTTCAAAAAGACGAGGTGCTTTCATTATTAATTGAAGCAAGTGTTATTGA
TATTTACCATTAGATAGGAGAGTAGTCCATGGTAGGAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 478>:

GNMFI82F gnm_478

CCCGTTCGTTTTTATTTCGATTGCTCATATTAGCAATTTCGGCTCTTGCCCGCAAGAACT
TGTCTTCCATTTCGGAAAGCTCTGCTTTAAGATTTTCAATCTCTGTTGCTTCAACTTCTA
CTTCAGAAACGCCAGCAGCATCAACAGCTTCCATTTCTTCTTGTAATTCTTCTTGCTTCT
CTTCTTTTTTACTCACTTCAGCAACTTCCTTTCTCTTTATGCATCTACTTCTTATCCTAA
CAAGGTTTGCTTAATTACCTAAAAAACGGTAATAGTCACCTAGTTGTGAAGCTAGCTCAT
GTCGAAACGTGTCTACCAAACCGAATATTTTTGAATACGGCATACTGGTTGGTCCTAGCA
GGGCAATTGTTCCTTTGCCATGTCCTGATACTTCATACGTAGCAGTGATCATGCTCATAT
CTTCTAAGAGATTGTTGCCAATTTCTGAGCCGATACGAAAAACAATTGGATTTTCTGTTG
TTGCAGAACCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 479>:

GNMFI83F gnm_479

CCTGCCCCATTCGTTTACCGACCCCACCGGCAATAATTAAAGCTGTAATCATTTGATACA
AAATCCTTTCTCTAACTAGTCAACCACTAGTTTTATTTCAATTTTGTTTAACTTATATAT
TCATCAACACAGCCAAAACTGCATTCAATCTTTTACATTTTCTCATAACTATCAGTAAGT
TTCAATAATTTATCGTAGACCTTAATCGAACTGTAAATGAGAGTGTAAAATATTTTGTGT
AAATGAAAAAATCCATACAAAAAAGGAAGTCGCTTCTGTAGAATAAAGTTAACGACAACC
AATTCACAGAAAAGAGGACTTCCCTATGAATGATTTTACTACAGAAATTGTGCAAACTCT
AGTCACTAAAGGCGATTTAAATGAATTATTCCGTTCGCACTTAGAAAAAGCGATAAACAC
ACTCCTACGGACTGAATTAACGGCTTTTTTAGATTACGAAAAATATGATCGCACTGGTTC
TAATTCAGGTAATTCGAGAAACGGTTCTTACTATCGATCAATCAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 480>:

GNMFI87F gnm_480

CCGGGAAAAAAATTCTATTCTACAAAATAAAAACGTTAGAAAAGCCATTAGTTATGCAAT
AGACAGAAGTAATTATGCTAAAAACATTTTAGATAATGGTTCTATTTCTGCTGTTGGTGT
TGTTGCTAAAGACGTTGCTTTTGATCCTAGTACAAAAAAAGATTTTGCTAACAAAATGTT
GGTGCATTTTGATACAGAAAAAGCGCAATCCTATTGGAATAAAGCGAAAAAAGAATTAAA
TATTAAAGAACAAGTAACTTTAAACATTTTAACCAATGAAGAAGAAACAACCAAAAAAGC
AGCTGAATACATTCAAGGACAATTAGAAGAAAATCTAAAAGGTTTAAAAATTACGATAAC
ACCAGTTCCTGCAAATGTACAAATAGAGCGAGTTATGAAACATGATTTTACTATTAGTCT
AAGTGGCTGGCAGGCAGATTATCCTGACCCTATGAGTTTTTAGGTAACTTTGAAAGTTA
CAGTGTGTTGAATTTTGGAGGGTATAGnCATACTAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 481>:

GNMFI88F gnm_481

CCGGTGAAATTTCACCGAAATAAACATATTCTGCTTGATACATGATATTGCCTAATTGAA
AAGCGTCATTTACTTTGTCCTTGTTTTGTACATAAGTGTTGTATGGAATTGCTGTATTCC
AATAAAACTTAGCTAGCCTGTGTTGATCTTGTTTCGAATAATTTAGCAAATGGCTAGCAA
TTTCCGTATTAAACACAAATAATTTATCTTTATTTAAACGGTCTATCTCTATTTCTAAAA
TATATGGATCGTCATTCATTAGCTGCAGCAATTCATAGCCAAGACAACTATCTTCTTCAA
ACATAAAAGTAGCACATCTAAGATCGTAGCCTTTCCACCCGTAAGTATTTAGAATAGAAT
AGGTTTGCTGATTAAAGAGCGTATGGTCTGTACCTGTCTCTCTTCTTAAAAGATCCTTTG
CTTTTTTTACTCCTACTAAACCGTGTTTTCTAATGCTATTGATATTGGACTTATCTGTTA
AATGAATTAACTTATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 482>:

GNMFI89F gnm_482

CCAGCGCTGCTTCTTCGGGATCAGGCGTCGTTAAACCAAACTCTAAATGTGCGCCGTTAG
TTCCTAAAAAAAGCTTTGTTAAAACGAAAATGTTGTAGCTGTTCCATACTAGTGGCACCAA
TGATTGCTTTAGTGGAGAGCTTCAAAGTACCACCAAGCATAATAGTGGGAATTTCCATAT
CGCTAAGTTTTGCAGCGTGATGCACGGAATTCGTCACTACATGGATTTGTTTCCCAACTA
AAAAAGGGATCATTTCTAACGTGGTTGAACCAGCATCTAAATAGATCATATCGCCATCTT
GTACACAACTAACGGCTAAAGAAGCAATCTTTTGCTTTTCGTGCGTGTTTTTGATTGATT
TTTCCGTCATGTTTTGTTCAAAGCCTAAATTAAGAATACGCTTAGCGCCGCCGTGAATGC
GTTCTAACAAATTGGCGTCTTCTAATTCTTGTAAATCGCGGCGGATTGTGGATTCTGAAG
CATTGAACAAGCTAGCAAGTTCTTGCGATTTGACGACTGATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 483>:

GNMFI90F gnm_483

CCCGCACGTTCTAAAATTTCAGCAATTTCCTCATTGGTTAAAAGCGGTGCTTCTTTCAGT
TCGTGCTTATCAATCAGCTGGAAATTTCTCTCCGCACGTGGCCGTAGTTGGGCACGAACT
TTTGAAAACTTCACAACGTCGTCTGTAATCGTCCATTCTCCTGTACCTTCCCAAGCCTGC
ACTGCTCGAGGCGCCACGTAATTATCAGCCCAGTATAATAATTCTTCTTTTTCAATTTCA

AAGGTCGAAATATTGTCTAAACGAGGTTGAATAATCGTCATTCGCACGGTTTCAAATTCG
TAAATAATGTCGTACTTATCCACCGCACCAAGCGCATATAACATCAGTTGAGGGTTTAAA
TACGCATCAACAGGAACACCTTTGCCGTATTTCAAGTCGATAATTTCAATCGTCTTATCT
GATAAGACAACCACGTCCGAAGTTCCAAATCCTTCTGGGACCCATTTTGAAAAATCTACT
TTTTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 484>:

GNMFI91F gnm_484

CCCAAAGTGATTTAACGTTTAATTCAGCGTGGGCGTTTAATCCTTCGACCAATGGTTATG
CGTTAGGTTTAGCAATGATGGACGGTGAGCGCCGTGTAAACTTGTTAAATTTTGCCAAAG
AACAAAAGAAAGATTGGCAGGCTGTCCCAGTACAACTCGAGTATATGTGGAATCATGACG
GCTCAGACAGTGCCTTGCTGAAACGTATGTCGAAAAGCTCTGATGTGAATCAATTAGCTG
TAGATATTTTGGTACATTGGGAACGTGCAGGCACTAAAAATGATCCCAACGAACAAATCA
AACGAAAAACAAGTGCGAATAATTGGTATAAGAGACTGTCTACAGGTTCTATGGGGGCAG
GTTCAGCCAATATTGGTGGTGGCAAAATTGATGTGTTAGAACAAATGTTAGGGCAAACAG
TCAATGGAGGTCAGTGTTATGGGGGGACTTCTTATTATGTTGAAAAGATGGGCTTTCAAT
CTTTAATGAATACAGGGCATATGTTTGCCAGTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 485>:

GNMFI92F gnm_485

CCTGCCCGAGAATGTGGCGGAGGTATTAAAATTGCGCCTTAGTTTGTCTAATTCAAGCAC
GAAAAAATATCTGATGATGGATAATGCACGTTGTTCAGATAATCGCATTCATGGCATTTT
ACAATTTTACGGTGCCAACCGCACAGGACGGTGGGCAGGGCGATTATTACAAGTACAGAA
CTTGCCTAGAAACTATTTAAGTGAAATTGATTTTGCCCGTCAGCTTGTGAAAGCAAAAGA
TGTTGAAGGCATCGAATTAATGTATGAAGATGTGCCAGACACATTGAAACAACTTATCCG
AACAGGTTTAGTTGCCAAAGAAGGGCATCGGTTCATCGTGTCTGACTTTTCAGCCATTGA
GGCCCGAGTGATTGCTTGGTATGCCAAACAAGATTGGGTATTAGAAGTATTCCGCACACA
CGGCAAAATTTACGAAGCAACAGCGGCGCAGATGTTCCATTTAGGCGAAGTGACGGACTA
CGACTGGAAAAGCCACGAAGGTAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 486>:

GNMFI94F gnm_486

AAGAAAATTTATTTATCGCTAGTACGATCAAAGAACGGGATCGAAAAGTAGTTCTAGCCG
AAGCTTTCCAGGTGTTCCAATTAGAACCTGCCTTACTTGGTCGTTCCTTTACTTCTTTTA
CGACTTTTGAAAAAATTACAATGCGCCTAATACAACTTTTGCTTTCAAAAACAAGTACGC
TCGTGATTGATGACATCTTTTCTTCATTAACGATTGGACAACGTCAAGAAATTTTACCTC
AATTACCACTAGCAGTTCAACCAAGAAACAAGCGCTTGCTATTTCTGACAAAAGATCCAC
AAATTCTTGATAGTCCCTATGTGCACCCCCTGTCTCTACATGCGTTATTAAACTCAAGAA
AACGTCTGGCACTGATTGCTACCAGACGTTTTCTTTACGTTCTCAGTAATTTCAACATCA
GGAACTGAAATAATAAACGTGGCGACTTTACCAAGTTCACTCTCAACATTAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 487>:

GNMFI96F gnm_487

CCGCTCATTAATAAGAACAGGTTCGGGTAGTAGTATAGAAGATGCTCCAATGTTCGCTTG
AAATTCTGGTAAGATATCTGCCAGTGAATAGGATAAAGTATCTTTTGTGTCGGTGAATAC
CTTATTTTCGCTATCTAAATGATACATGGCGTGAATAAGTTCATGAGATATCGTGAAATT
TTTTCTTTTTTCGCCCATGTTAGAATTATAAGCTAGCGTAGTCTCGTAATCATCTTTAAT
AATCATACCTGATATAGATCTACGTGCTGTTTTTCAAATGGAAAGGGCCTTATTTTAAT
TGATTTAGATGTTAATATTTCATCCCAAATATATCTATGCTCATAATTATTAACACTCAT
TCCCAAACATAACATGTGTGCTGAAATAAATTCGTTAATGGTACCGCAAAAGTTAAGGTA
CTCGTCTACTTCTACTGTCATCCTGAAAACCACCTTGTAATTATTCACTTAAATTTTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 488>:

GNMFJ77F gnm_488

CCGGCTTCTTCAGGCCAAATCAGCCTTCTGCGCGAGGGGAAGACGTTTGGAGTTGGTTTC
CAGCTGCGGAGACCACCAGCCAAGCAGCAGTGCGACTTTCGCGGTTATGAACAACCGGAA
ATGGTCAAGAAACGGCCTGTCGTCGTCATAGCGCGAAACAGGCACAACGGCAAACTGGTA
ACGGTCGTACCCTTAAGCAGCACAGAACCTGTCCCTTTGGCGGACTACCACCACAAAATG
AGTGGAAACCCCTTACCGGACAAGCCGCACATCCAATGTTGGGCAAAATGCGACATGACG
GCAACAGTCGGATTGGCACGATTAGACCGATACAAACCCAAAGGGTGCGACCGCTGCATT
CCAATAATCAGTGAAGAGGATTTTCAGGCGATTAAAACAGCCGTTGCCAAGGCATTCAAA
CTGTACTAGAATAAAACCGTTCCCTTAAAGGGGCTTGCAAGACTATTCTGAAATATGGGC
AGCCGCGCACGGGCGACAGGCGATGACAAGCCGTCCGTGCGTTTTATGGGGCGCGGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 489>:

GNMFJ87R gnm_489

TATTGGCTTCATTTAATGCTCCTGAAATCCAAGCGCGTGCTGCTCAAATTGAAGATTTGA
CCAATAAATTCCAAATCAGCAGCACACCGACTGTGATTGTCGGCGGCAAATACCAAGTTG
AATTTAAAGACTGGCAGTCCGGTATGACCACGATTGACCAGTTGGTGGATAAAGTACGCG
AAGAGCAGAAAAAGCCGCAATAAGTTGAGGATTGAATGAGTAAAGGCCATCTGAAAATAG
GATTTCAGACGGCCTTTTGTATTTAGGCTTTATAGAAGAGATGATTGCTTAAAGCCTTAT
GGTTTTAAATCAGAATATATAGCGGATTAACAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 490>:

GNMFK22R gnm_490

CCGAAGATGATGCTGGCTTTGCTTCTTCTATGGCCCGGTGGTGTTTTTACAGGAGGACGG
CTTTGGGTAATTCGCCTTGTACGAGCAAGAGCGGCAGGTAGTCTCCGGGCAGGCGCAGGG
CGACATCCTGCATTTATTTGCGCGAGGAAAACAAGACGAGCGTGCCGATGGCTTCGGTGG
GCGAAATAAGCTTGGGCAGCCATTCGATGACGGCGGCGGTGTGGGCTTCGGGGTCTTTAG
GGCTGGCGTATATAGGGGGGATGTAGAGTTCGCCCTGTTTTTCAAAGTCAAAGGGGCTTT
TAAAGGCGAAGGTAGTGGTTTCAGGCAGCCATTACAACCCGGTTTAGCGCACATACAAGT
TGAAGTTACCCAAAGATTACAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 491>:

GNMFL05TR gnm_491

TACTAACTCTGCTGTCGTTCTTGCAGTTACACCTGCGACAAACAGTTCAATGAGTTTATT
TGTTTATACCGGCTTAGACGACTTTTCTCATAAGGGCAACTCTAACTTAATTTGGATTT
CCCTACTTATCTATGAGAGCCCCTTGTTTTAATTGACTATAATCCGCTATATTGTGAGA
AGCTGGATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 492>:

GNMFL42TR gnm_492

CAGCTCGGTAATAATTACGAATTCGAGCTCGGTACCAGATTCCCTGTCGGAGATGGAGGA
GTTTGACCGCCTGATTCTGCTGATACGCAAACTGTATCAAATATTGGACGGGCAACATAT
CCTCTCCAGAGTAACGGTTTGCCTTCACCACCAAAACCGGCGCGACCTGATTGCCTTGGA
TAAAGCGGCTGCCGGTTGCGATTCGGCAATGTTGCGCGCCCAACGTTGGCTCATCTACAC
GCAAATTGCGGAACGCCTTGCCGGGTCGGGCGGCGGTTTCACGGTTACGGTAGAAAGCGT
GTCCGCCGCCTGTCCGGAGCTTGAAGGACGCTATCTCGAGCTTGTCCGCCGCGCCGCCGT
CTCTTTCGGTTTCACGCAnAGATGGGAAAATCCGGCAAGCGGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 493>:

gnm_493

CCTTTCATTCGCTGCTGGCGGTTTCTATGGGTTCGGTATTCATGGGCGCACTGACCTACA
TCGGCAACGCACCGAACTTCATGGTCAAGGCCATTGCCGAACAGCGCGGCGTACCGATGC
CGACTTTCTTCGGCTATATGATGTGGTCGGTCGCCTTCCTGACACCCGTCTTCATCGTAC
ATACCCTTATCTTTTTCGTTTTCAAACTGCTGTAAACGCTATGCCGTCTGAACATTCAGA
CGGCATTTTAAATTCCGGCATAATCAAATCAATATCCCCCCTTCCGACAATTTATAGTGG
ATTAACAAAAATCAGGACAAGGCGACCAAGCCGCAGACAGTACAAATAGTACGGAACCGA
TTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGC
CGTACTGGTTTTTGTTAATCCACTATAAAATCTAAAGAAACCTTTTTTCCCGATAAGTTT
CCGTGCCGACAGGTCTAGATTCCCGCCTGCGCGGGAATGACGAAATTTCAAAGTTATGGC
GTTATCGGAAAAACAAAAAATCAAAGCCGGAGAATTTATCCCAAACAACCGGATTTCAAA
AAACCAGATGCCCGGCGGGAATGACGGATCTTAGGCTTCTGTTTTTGTTTCTATAGTGGA
TTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGAT
TCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAATGCGAGGCAACGCC
GTACTGGTTTTTGTTAATCCACTATATTTTTCAGGAATGACGGTTTGGAAATTGCCCGA
AACCCCAAAAACAGAAACCAGACAAACAGGTTTTCCGCCAAAGCCGGCATTTTCCGACTT
TGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 494>:

GNMFP26TF gnm_494

CCGGGTGGATGGTATGCGCACGGATGTTTCTGAAATAATCGCTTACCGTGCTTGTGTTGT
TTGCACCGGTTGCTTGCGGATAATCGTGGGTAATGCGTTCGGCGGCATAAGCTAAATCCG
CCTGCACATAATACGGGCTGCGGCTGCCGTCTTCACTTGCCGCCTGCGCTGCGGAAGATA
AGACAACAGACGAGAATAGAAGAGAAGAGAAGAGAAGAGAAGACAAGAGAAGAGAACAGA
ACAGAATAGAACAGAAGGTTTTTTGGGGGCTGGATTCATTTTCGACTCCGTATTCGGTTT
TAACTGATTAAAAAGAACACTTTTCAATGATCTTGCAGGAGCGGACTATACCAGGTTTGT
GGCGATGTTTCAACACAATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 495>:

gnm_495

CAGGAAGGACGCGGCATCGGGCTGATTAACAAAATCCGCGCGTATCATCTGCAAGACCAA
GGTATGGATACGGTTGAAGCCAATTTGGCACTCGGGCTGCCCGTCGATGCCCGCGATTTC
CGTTTGGCGGGGTTGGTGAATCTGATTGCGTGCGGAAGCACCCGTTTCCGATTCGGTGCG
GAGCAAATGGCGGCACTTTATGTACCGTTCTGCGTGTTGAAACATATAGGCAGATAAAAA
AGCCGCCCGTTGAAAAGCAGACGACTTATGTTTTGTGGCACTAATTTGTCCCGATAAGCA
TTAACTATATAATTTATTTATCATTATTGGTGCGGACGGAGAGACTCGAACTCTCACACC
TCTCGGCGCCAGAACCTAAATCTGGTGCGTCTACCAATTTCGCCACGTCCGCATGGAAT
TGGACGATTATACAGATTTTGTTTTTTTGTGCAAGGTTTTCGGCGGGGCTGTTGATGGCT
TGGGGTTTGGGGCGGTAAAATCTGTTTTTCGTCCGCCTGACATCGGAATCGGGCGGTTTT
TTGTTTTTATTGACGGAATTTGGGTATGCCTGCTGCTTTGATTAAGGATTTTCTGCTGAC
TCAGGGTTTGAAGCTGCCGCTTGACGAGGTTCGGGCGGCGTATCTGACGGCGCAGACGGT
AATGGATATGGGGACGGCTTCGATAGACCGTTCGGTTTTGTGGCGCAGTGATGAGGGTTG
GAAACTTGCCGATTACCTGTCGTGCCACAATGTCCGCGAAGATGCACTGAAACGGCTTTT
CATGGCTTTGGATTCGGTGTTTTCGCGCTCGACAGGCGTGCGGAGTGCGGCGGTCTATGC
CTTGATGCCATCTGAAAACCAGGCTTTCCAACTGATATGCCTGTCCCGACAGGGCGAGGT
TTTGGAAAACCTGTGGGATTTGGATGAAGCGGCAGGCAAGGTTTCGCTGGCTTGCCGTTC
GGCGCAAAGCGGTTGGATGAATGTTGCCTCGGATGTACGCCGTTGGCTGGATTTGGGGGA
GCTTTCGGGAGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 496>:

GNMFP92TR gnm_496

ATCAACAGCGCGCCGTATTTTTCGGTCAATCCGCGCAAGGCTTTGACAAAGGCTTCGGTC
GGGCGGACGAGGTTCATATTGCCGACGAAGGGTTCGACAATCACGCAGGCGATTTCATTG
CCGTTTTGAGCAAAGGCTTCTTCGAGTTGGGCGATATTGTTGTACTCGATTACCAAAGTG
TGTTTGGTAAAGTCGGCAGGCACACCGGTGGAAGACGGGTTGCCAAACGTCAGCAGACCG
CTTGCCGGCTTTCACCAGTATGCTGTCGGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 497>:

gnm_497

CCAACATACAGGCCGCTGTAGAAACATGGCGGCAAATCGGATATTTCAGTCTCCACTATA
AAGAAGCAGGGGGCGGACTGTCAATACTCAACGCCTGAAAACAACCGTAAAACAGCCTGT
TTCCTGATAGTCTATCATGCCGAAAAATCAATTCCGTGTCATTACTTTAGGGGGATTTTT
TCCATATCGCACGATTGCCGTTGCACAAAAACAACAAACACAACGGCAAAGCCCCATACC
GTACCGGCAAGAAAATATGATAAATTATAAACAATGTTCAGCCACCCGACACAGACCCAC
ACCGACCCGCCATGAAATTACAACAATTGAAATACGCCTTAGAAGTTTACCAGCACAACC
TGAACGTTTCCGAAGCGGCCGAAGCCTTGTTTACTTCGCAACCCGGCATCTCCAAACAAA
TCAAATTGCTGGAAGAAGAAATCGGCATTCAGATTTTTATCCGCAGCGGCAAGCGCGTGG
TTTCGGTCTCGCAGCCGGGCAAGGTGGTTTTGGATATTGCGGGACGTATTTTGCGCGATG
TTCAAAACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 498>:

gnm_498

CTTGCCGATTAAGTGGGTATAACGTTCGTGTTCAGGATTGACGGCAACGGCAACGTCGCC
CAGCAGCGTTTCAGGACGGGTGGTCGCCACGATAACGGCTTCGGCGGGATTGTCCGCCAG
CGGATAGCGGATGTGCCACATAGAGCTGTGTTCTCCCCAcgtcwGACGACCTTTTCCGTT
TCAACCAATCCCTGCGCTTGATTATTGGTAATAATTCCTATTTAATTCATTTGTTAGACA
ACTCGTTCCTATCCAATCATGAACACCGCCGCCATCTACCGCCAGTACCAAACCTATGTC
CGCTCCGATAAATCCGGCTGGGCGTTGGACGGCTGTTCCGACAGCGCGCTCATTGCGCAG
GCAAAACAGCCCGGTTTGCATCTGGAAATGTGCATCAACCGCTTCGATTCGGGCATCACC
TTGTCGCGGATGCGCGGCGGCGGAACGGGCGCGTTTCCCACCGAAATCCACAATTTCAGC
CACAACTGCGCCTTGTTCGTCATGGTGTCGGGGCAGAACCGGTTACAAATGGGCGGCAGG
GAATACCGCCCATCTGCCGGCGAAATCTGACTGGTACGCGGCGATTTGGCGGACGTATCC
GAAACCCTGCTGCCCGACAACAGCGGCATGTGCGCGCTGCATTTGGATTTTGTCGCTGGA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 499>:

GNMFU01F gnm_499

CCGCCATTAACACTGGGTAAGTTAACAAACCAGTTGGGATAGCAATGGTGTTATTACTAT
TTCTTTTTTGCGCTAATTTCTTTGTTTTAAATTGGGTCATTCTTTGTAATTCACCTAGAT
TACTTTGTGTCAGCATTAGATAACCTAACATGGTATGTTCCATCAGATCACTTTGTAAAA
ATAAGTTCACTTTTCCATAATCAAGTCCTAGTGCTAATAAAGTTTTAACAAGTTGCAAGT
TGTTATCTTTGAGCATTGTTGGTTCAAAATCAACAGTAATAGCATGAAGATCAGCAACAA
ATAAAAACAGTTGGTATTGACTTTGGAGTTGTTTTAAACCTTGCATTACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 500>:

GNMFU02F gnm_500

CCCGCGTTAAAACTTCCTTTAAAGTTTCAATTTGTTGTGAACCCCCCTTAAGCTTAAATT
CACTTGCAAGGTTAACCTTTTTAAGATCAACTAAATTAATTTGGTTTAAATTCAAGTTTT
TATTAGAAACTTTAAAGTTTTCTTTATGAGTTACTACTATTTGTTTATCTTTGGTTAATT
GAATATCAATTCAAATACCATCAAAATCAAAAACTTGGGCTGCTTGAAATGCTAATTTGG
TGTTTTCTGGTGCAATAGAACTATAACCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 501>:

GNMFU04F gnm_501

CAGTGAGTTTTTTTGACAAGAAACTCATGGGCTTTTTGTGGATCAGAGCCAATCTGAACA
AGCTGCTATTAGCTTTTGAAATTTATATCAGGATTTAATTATTAACAAACTTTGTATCCC
TGCTTTTGTTGGTTTGAAAAGTGAAAGTGAAAAATTTGCAGGTGCTAAAAACACATGGAC
AATAGAAGCAATTATGCCTGATGGACAAAGTTTACAATGTGCCGGGTACCGAGCTCGAAT
TCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACAC
AACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC
ACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTG
CATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCT
TCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCAC
TCAAAGGCGGTAAAACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGA
GCAAAAGGCCAGCGAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCAT
AGGCTCCGCCCCCCTGACGAGCATCACAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 502>:

GNMFU07F gnm_502

GGTATTTGGTCCATTAAGGTGAGAAGTTATTACGTATTATTAACAAAAAGGGTGATGTTT
AAATCAAATTCATCTTTTTGTTTGTTGATCTTGGGAATTATTTTTTCAATATAACCATCA
CCATTAATAATTGTTTGACAGATTTTATTAATGGTTTTTTCACTCCACACTCCGTTAATG
TTAATGTAACTGCGAAACTTACGTGGTTTTAGTTTTAACTGCTGGATATTTCAATATAAC
GGGATAATTTTTAACTGCTTTTTATTTTGTAAATTCTTACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 503>:

GNMFU08F gnm_503

CCAGAAACTTAGTTTTTGGAACCAGATCATATAACGATGGTCATTAGGTGGTTGTTATTG
CAACCGAAACAGATAGTTCCCAAATTAATTTTCTAAACGGTTCTACTAATCAAGGTACAA
GTTCTCTTAGTTGAGGAGGTACCTTGGGTACCACCATCAGACAGGTGCAAAACCGTTATT
CTACTTATCCAAACGGAGTTAAATTTTTAATTTGGAATGATATTGCTCCTGGTTCAGTAA
AGTGAAACCCATATGCACGTTTTCCTGTTGTGGATAGAAAAAAACGAACTTGCAAGTCAGG
GTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGCGTGAAATTGTTATCCG
CTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAA
TGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC
CTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAAGCGGTTTGCGTATT
GGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGTTCGTTCGGCTGCGGCGA
GCGGTATCAGCTCACTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 504>:

GNMFU09F gnm_504

TTAAATCGGAAATCATCTAAAGTATAGACAAAAAAGCGATAGTCATCAAACTTATTAACT
GCTAAATTAAGTAAATCAGTTAGTGAATTTTTCAGTTTTTCTAAAGCTTGATTTGTTTGA
CTCATCAAGTAAAACAGTTTTTCATAATTGATTTGATTCTGAGCTAAACTTTGATGGTTT
AAGTTATTAATATTTTTAGTAATTAGATCGCAGTTCTCATTAAGCTCAATAATTAAATCA
TGCACATCTGTTTCATTTTGGAACACTAATTCAATGGCTTTAATTGTTGTTTTTAAAAGC
TCATTTTTCTTTTCATATTGTTGAATTTGATTACGAAAATCATCAATATTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 505>:

GNMFU11F gnm_505

CCAAATTTAATGTACTAATTCTGTTAGATAGATAAGAATTGGCTACTAACTCCACCTCCT
ACTAACAACATTTTAGGGGCAAATTTTTTAATTGCATTTTTAACATGATCAATGTAATGA
TCAATAATAGTAGCTTGAAAATTGGATGCTAATTCACTCCAATCAATTCGGGTTTTATTA
GCACTTATTTGTTTAATCTTGTTTAAACACTGAGATTTTAAACCAGAATAGGAAAACTTA
GTTCACTTAGTAGAAGGTTTAAAGAAATAGTGAGGTTTAACTAATTCTTTATTAAAAAGA
CTATCAATTTTACTACCAGCAGGATAATCAAAGCCCATTGCTCTGCCTATCTTGTCATAA
ACTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 506>:

GNMFU12F gnm_506

AGATAAGAAATACAAAATTCTCATTGAACAAGAGTTAAGTAATCCCAATTTTCTTAGTTA
TGAAAATGACGAATTAAAAGCACAATGTCAAACCAAAGAATTAACTGAATGATTAGTTCA
AAAAAGTAAATCTTTCATTTTTTGGATGAATAATGCTGGTTTTAAAAACTTTAACTTCAT
TGCACTTTATCCTATTGATAAAAATGAATCTAAATTAAAAGTAAAAGCTGTAACTGTTTC
TCAATATGATAAGCAGTTTGAAACAAAGGTATTTGCAACAGAATTTATCCCTATCCACAA
GATTAACCAACAGATCGATGATGTCAAGATTATTGGGCAAATCTTTGAATTAAAAACCCA
TGAAAGTTTAACTGGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 507>:

GNMFU14F gnm_507

CCCAGGATTGGCAATTTTTATGCCTGGTTGCATCTTACTTTCCTCGGGTTCTTTTAGAAG
TTATATCCCAACTCCTAGTTTAAGAAATACTGTTGGTAATCACAACAGTTATGTTAATAA
TACTGTCCCTAAAAACAATTTTTATGAAAAGTTTTATGATCTAACTTTTGCTTTAAATTT
CACTAATCAGAAAACTCAAGAGTTTGGTACTGGTTGGTTAATTGACTGAAAAGGAGATGA
AACTAAAGATCTTAATACATTAACTATGGGTACCGAGCTCGAATTCGTAATCATGGTCAT
AGCTGTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAA
GCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGC
GCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCC
AACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACT
CGCTGCGCTCGGTCGTTCGGCTGCGGCGAACGGTATCAGCTCACTCAAAGGCGGTAATAC
GGTTATCCACAGAATCAGGGGATAACGCAGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 508>:

GNMFU15F gnm_508

ATCCTTATAGCTATTTCGACGAGATCCAGCTATCACGGTCCACTAATTGGAATTTCACCC
CTAATCACAAGTCATCCGCTATCGTTTCAACGAGAGTCGGTTCGGTCCTCCAGTTAATGT
TACTCAACCTTCAACCTGCTCATGACTAGCTCAACCCGTTTCGGGTCTATGATAACAAAC
AAACGCTCTCTTAAAACTCGCTTTCGCTACAGCTCCCCATCTCCTGGTTAACTAACGCTT
GCTATCATAACTCGCCGGCTCATACTTCAAAACGCACGCCATCACACATTAATGTGCTCT
GACACGTTGTAGGCATATGGTTTCAGAATCTATTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 509>:

GNMFU16F gnm_509

CCGTGAGTTGTTCACGTTGTTTTAAAAGTGATTCATTAGCTTTACTGAAAGCAGTTTGCT
CAAGGTTTAACTGGTGTTGTTCACGTTCCAGTTCTAGCTGAGCTTGTACTGTGTCTTGCT
TTTGGTTTTGCAGCGCTTGAAACCTGTTATCAAGTTCTAGTTTGACCTGATTATTTTTTT
CAGCTAACTTGTCAAGTTCACGTTGCTTAGCTTCAATTTGTCTAAATTCTTGGTCCTTTT
GGAGTTCAAAAACCTGATAGTCTTTTTGTAGATCACTAAAAGCAATCTTTAGTTCTGTTT
CCTTTTGGGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 510>:

GNMFU19F gnm_510

TTTGCAAAACAACCTGAATCAACAACTGATAGCTACAGCTTTGACAGTGATTTACCTCAA
CCAACCCTTGACCAACCTTCTTTAGATGATCATGTTCAGTACAACTTTGATCACCATGAA
GAGCTCAAACCAGTTGCTGAAGAACAAAATAATTATCAAGTTGGATTTGATCAAGTTCAA
GCTAATCTTGATAATAATGAGGAAATACAACCAACTGCTGAAAAAAAAGTAACTACTGAT
TTTGAAAGTAAACAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 511>:

GNMFU23F gnm_511

CCTGACAAACTAAATCAAAGTGAAAGATATTTTTCGCTTAGCTTCAGGGCAAATTTTTTA
AAAGTTAATTTTGATAAATGTGTTTTTGCAAGTACAAAAACACATCATAATCTTGCTTTA
GTTCACAAAAAAATTTTCGAATTATTCGTTGAAGATGAAAGATAAATTTAGTTTTCAAAA
AAACTATGATTTCAACTTAGTTAGTGATGGGCTTTATGAAATTTGAAATAATGCTGGTTT
TTTTAAACCTAAAGATAAAAACAATTCTTTTACAGCAATTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 512>:

GNMFU25F gnm_512

CAGGGTGGTTTTTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCGCCTG
GCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTG
TTTGATGGTGGTTAACGGCGGGATATAACATGAGCTGTCTTCGGTATCGTCGTATCCCAC
TACCGAGATATCCGCACCAACGCGCACCCGGACTCGGTAATGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 513>:

GNMFU27F gnm_513

ACCTGTTTCAAGTGAAAGTTGGTAGTTGTGTTCAACTGAACTAATTGCATTTCTTCTAAC
CTGAGCATCAACTTGTCTTTTTCTTTGGCGGGTTTTGGCTTGCTCACGGTTTTGTTCAAA
GGTGAGAGTAACAGAAGGTAATCCCCCATTAACCAATCAGGACTTGTCAATGTTGTCAAG
TTCACTAGCAGTTTTATCATTAGTGTTTTTAGTAATGTTTACAGAAGAAAAGCCCTGAAT
GAATAAACTGTTAGCATAACTTTTTTCAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 514>:

GNMFU30F gnm_514

CCAGCCACTAGGTAAGTTAACCAATAGTGGTACATACTGGGCACGGGGCAAACATCGTGT
TAGGATCAAATAGTTCAGTTACTGGTAAGGTGAATAACCTATTAAAGTCAATCTGGTTAC
CAGGTTTAAAGCTAATTTTTTCAGTATCACTATCACTAGTTGCTCCCTGGCCATTGATAA
GGTTAACAAGGGGAGTAGATACTACGCCAGTTAGTTTACCATCCATCTTGGTAAATGTAC
TATCACCTATCCCTATTTCACTCTTATTGTTTTGTTTACTATCAAAGAACTTTTTAAGGG
GTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCG

CTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAA
TGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC
CTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATT
GGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGA
GCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCA
GGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 515>:

GNMFU31F gnm_515

CCGATCTGAAGGCTTGGGGATTTTGTAGTGGAGTTGAAAACTATGCGAGACACTTAGAGT
TGAGGATGGCTAACTCAACCCCTTACAGTATCTTTGATTATTTTAAGGGGGATTGGTTAC
TGGTTATTGATGAATCACACCAAACTTTACCGCAACTTAATGGGATGTATAACACTGATC
TTTCAAGAAAGCAAAGCTTAATTGATTATGGTTTTCGACTCCCATCTGCACTTGATAACA
GACCGCTCTCATTTGCTGAATTACAACAAAAAATGCAAAAAGTTATTTATGTTTCAGCAA
CTCCAAGAGATAAAGAGATTAGTTTAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 516>:

GNMFU33F gnm_516

GCGAAGATGATCTTAAGGGCTTAGATTCCAATCAAACTCAAGCAGGAAATGTTCCAGAAG
TTGAGACCGTTTTTGTTTACGAAGATGATCTTAAAGGCTTAGATTCTATTATTAAAGACG
ACCAACAACATGATGAAATTGCTAAACATGTTGAACATTTAAGTCAAGATTATTCTAAAG
AGATAAAAGATAGTGCTAAAGCAGATTTATCTAATATTTCTGATGATATTGATTCAGTTT
GAAAAGAATTCGGTTCTTTTACTGATGAGACACAAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 517>:

GNMFU37F gnm_517

GACTCTAGAGGATCCCCGTTATTAGTCACTATCCCCTTATGAAAAGACTATTTGGAGGTT
AAAATTCTAAGTACCATGGAGTTGAAAACCCCTAACTTTAAGCTAATTGATGAAAAGATT
GCTGAATTTAATAAGAGTAATGAAAACCTGATTGTAAAACTACTTCAAAAAGAAAAGGAA
TTTGCCACAAACCAAGTTACTGTTCAGTTTGATACTCAGTCAAAAAAGTCAGAAGAAGTG
AAAAAACCTAGTAAAAAAATACTGAAAAGTTATCACTGGGTACCGAGCTCGAATTCGTAA
TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA
CGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTA
ATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAA
TGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCG
CTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAACGGTATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 518>:

GNMFU39F gnm_518

AAGTTTATTTCTTTTTCTTTTGCCTCTATTATATTTCTGTGAATGATGTGGTTTTATTTT
GTTATTGGAAATAATAACGTTATTCATTTTTTTCAAAATTTTATTCAATTCACTTTTATT
AATTAATATTTTCATTTTTGATTAAGTATTAATTTCTGGGTTATCAAGGGTTATGATATT

TATTTCTATTTTTTTATTTTCTTTAATATCTATTATTTATTATAAGAACTAAAATGTCTA
TAATTTTGTTCATAAAAAGCTTATAATTAAGCATAAATGCTTAATTATAGTAATAATTAA
TACTCTCTAAAATAGATACTATTATATATAACAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 519>:

GNMFU40F gnm_519

CCTGCAACTAATTTAATTGCTTGGAGACTGAATGCAATCCAAAGTGGCAATATTAAACCT
TCAACTACTTTTAAGTTGGAATTTGTTAATTTTAAACACCAACAGAAGTTTGTATTAAAT
TGGTTTAAAAATGAAAGTGAATCACTGCGTGATTTCCAATCACAGTTTGAGAGAATCAAT
AAGTTAGTGGAAAGGGAGTTTGTTAAGTAACAATGTTAAGTTTAGCACAATTAGAAAGTT
GGTTTTTTATCGCTCCAGCACTGCTTTTAGCAGTATTGAGTGGTTATCTCGCTGAACGCG
TTGGGATCATTAATATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 520>:

GNMFU43F gnm_520

TTTACTGTGGTTTGGATTAACTTATCCTCATTGAATTTCACTGGTAGTGCTGCAGTTCTG
TGATCCTGTCAAACGATGGCATTATAAACAGGCAAACCATTTTCTTTATTTCATAAAACT
ATTGTTTCTCTTTGATTGGTAATACCAACTGCAATCACTTCATGAGATTTGATTTGTGCT
TTATTTTTAGCACTTTGCATGGTAGCTAGTTGGGCTGATCAAATTTCTAGTGGATCTTGT
TCAACTCAACCACTATTAGGAAAAAAAGTGTTAAATTCGTTTTGTGCTATTGCTATTTGG
TTAAGATTGTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 521>:

GNMFU45R gnm_521

GTTGATGGCGAGATAACGTTTGTCGTAATCTGGACACGTAAAATCTAAAGAACCGTTTTC
GAGGGCGATGTAGCGGTTGTCGGCGGCAACCAAAATATTGCCGGGGTGCATATCCGCGTG
GAAAAAGCCGTCGCGGAAGACTTGCGTGAAGAAGATTTCCACGCCGTAATCGGCGAGTTT
GTGCAAATCGATGCCGTCTGCTTTGAGTTTGGCGATGTCGGAAACCGGCGTGCCGTCCAT
CCATTCGATGGTCAGCACGTCGCTGGTGCAGTAGTCGTAAAACACCTTCGGCACAATCAG
CATATCGCTGTTTTGGAAATTGCGTCCGAGCTGGCTTGGCATTGCCGGCTCGCGCATCAA
GTCCAACTCGTCGTGCAGATATTTGTCGAACTCCGCAACCACTTCGCGCGGCTTCAGACG
CTTGCCGTCGGCAAACAGACGCTCGACCCAGCCTGCACCAAAGCGCATCAGCGACAAATC
CTGTTCGATCACGGGCAAAAGGTTGGGGCGCAAAACTTTAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 522>:

GNMFU45F gnm_522

TAGAGGATCCCCTGATCCACTGTTAATTGATCAAATGCATTTAAGCCAATAAGCTAAGGG
GCAATAACTTTATTAACGTTATCAACGGCTTCGTTAACGCCTTTACCAAAATAATTTTTT
GGATCATTATCACGTAATTCAATTGCTTCTTTCTCACCTGTAGAAGCACCTGATGGAACC
ATCGCTTCACCTACATGACCAGATGCCAATTTAACAACACAAGCTACTGTTGGAACACCC
CGAGAATCAAAAACTTGATAAGCAAAAATATCGGTTATTTTTGAATTGATGTTTAGATTT
GAACTTCCCGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGCGTGAA
ATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCT

GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCC
AGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAAGCG
GTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTC
GGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAG
GGGATAACGCAGGAAAGAACATGTGAGCAAAAAGGCAGCAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 523>:

gnm_523

CCCGTTAAAAGCCTTTGATTATTCCAAAGCCTTTTGAATAAGGCGTGGCTTCACGTAAAT
TAGGTCAAAATTTTACGGTTAATTTAAGCGTCATTAAAAGAATTTTTGCTTTTGTTAAAA
ATTTAAATCCACAAGCAATTGTTGAAATAGGTGTTGGTAAAGGAGCGTTAACAAATTATT
TGTTAAAACTCAAAATACCTTACAAGGGGATAGAAATTGATAAACGCTTAATTGAATATC
TTCTAGTTGAAAAGATATTAACTGAAGACCAACTAGTTAAAGGCGATATTCTCAAAAAGG
ACTTTAATAGTTTTTTTGAAAATTTAAGTCCATTGGGTACCGAGCTCGAATTCGTAATCA
TGGTCATAGCTGTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGA
GCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATT
GCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGA
ATCGGCCAACGCGCGGGGAGAAGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTC
ACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCG
GTAATACGGTTATCCACAGAATCAGGGGATAACGCAAGAAAGAACATGTGAGCAAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 524>:

GNMFU50F gnm_524

TGGCTTTTGCAATGCAAACATCCAAAACCACACATAACCCTTTGTTAACCAATCAATAGT
ATCAGATAAAAATCCAAAAATAAAACCCCAAATAGGACCAAAGATCCATCCGAACAATGC
AAAGGGAATCCTTAGAAAACTAATGCTTAATACATTAGTAACACTAATTGAAAAGATAGA
AAAGATAAAGGTTAGTGCTAATAAAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 525>:

GNMFU51F gnm_525

CTAGAGGAGTCCCAAGTTTGAATCGTCATTTAACAAGAAATGAACTTGAGAAAGCTTAAA
TAAAATTCGCTCTTTGATTAAACAAAAAATAAGCTCAAAAGAGATTTTTACTGATTTTGA
AGGGAGTCAAAAACTAAATGCAATTGCTTATTTTGAAGAGGAATATTCTCAACATGAAAT
ATTAAGAGTGATCCGCTTTGGTGATTATAGTGTTGAGTTGTGTGGTGGCACTCATGTAGC
TAACACTGCTTCAATTGAAGATTGTTTTATTACTGATTTCTATTCTTTAGGAGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 526>:

GNMFU53F gnm_526

GGAGCATTTAAAAACCAATAAACACCAACTCCAGCAGCACTAAATGCAGTAATAGCAGCA
AACACAAAGTAAAAAATTAATTGCATCTTTTTAGTTTTGTTGAGTTGTTCAATACTTTTT
TGAGAATGGGCTTTCGCATTCTCATTACGCTTACTTGCCCACACTTGAGGAAGTTTTTGA
GAGAGAAATTGGACTGGTAAAACAATCACTAAAAAGATGCATGACAGGTCACCCAGTTGT
AGTGAAATTAGAGACAATTTCTGTTAAAGGTACTTTTGAAAGATCCCAAAAGTTCAATAA

GATGATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 527>:

GNMFU55F gnm_527

CCCAAAGTTACTCAAGAAACTCGCTTAGAAAATATTAAGGGATGGAAAAAAATAATAGAG
CAAATTTATCAAGAACTGAGGGTTGTAAGAAGAGATGCATTACAAATGATTAAAAAAGAT
AATCACAATGAGGATTTAGAAAACTCTTTAAAAGCTGAAATAGAAAAAATTAACAAAAAT
TATTCTAATCAATTAGAAGAGATTCAAAAAGACAAAGAAGAAGAATTGCTAACAATTTAA
ATGAATGAAAAAGCAAAACAATTCATCAAAAAGCGAACTTCAGTATTCATTGCTTTATTA
GTTGTATTTTGCTTTTTTCTTTTAATTAGCGCATTTGCTGATGGTTTTAACTTTTGATCA
CCGTGATCAGCAGATTTCAATTCAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 528>:

GNMFU56F gnm_528

TTTGGAATTCAACTTAACTGATGATCACATCAAAATTGTTCAGAGACCCAGATGACGCTA
AGTTAAGTGATGCCACCTTTGTTATTTTTGATATTGAAACCACTGGATTACATGGTAGGT
ATGATGATGTTATTGAGTTTTCAGCACGCAAAATTAAGAATAACAGCGAGATAGATCATC
AGCAATTCTTTTTAAAAATTGACAAACCTATCCCAAAAACAATCACTGAAATCACCAAAA
TAACTGATGAGATGCTTGAAGGCGGTATTGATCAACAGCAAGGTTTAGAAAAGATAAGAA
ATTATCTAGATGATTGTGTTATGGTAGCTCATAATGGTATTAATTTTGATTTACCCTTTT
TGCAAACTCAATTTGAAAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 529>:

GNMFU57F gnm_529

CGGTCATTTTACTACGGTGTAAAAAACGTTTCATTGCACAGTCGAGAGATTTCAATAATT
TTAAAATTTATATTTTTATTATTACCACATGCGACTTGAAATAGAAAACGGGCTTGAATT
TGTCAATGATCCTGTGGTAAATGAACTTGGCAAGATCTGTTTTTTTCATCCTTTTACAGG
TAATTTAACAAACAAACTTAGTTTCAGAAGTCATTTCAATAGATACAGTTTTTATGCCAT
TAACTACCCAGGGCATGGTAATAGTGTTATTAACAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 530>:

GNMFU63F gnm_530

CAAAAATACACTAAAAAAACCAGTTATTATCCATGTTGGAACTCTATTGGAACTTGGGAA
AGGTTTATTGCTGCTTTACTTGAAAAAACAAGTGGTAATTTTCCTTTATGGTTAGCACCT
GTTCAAGCCGTAATTATTCCTGTTAATATCCAAAAGCATTTAAAGGCAGCAAAAAAACTT
TATAACAAATTGCTAAAAGAAAACATCCGTGTAAATTTAGATGATAATCAAGATCGCTTA
GCTAAAAAAGTTAGACAAGCAATCATTGAAAAAATTCCTTTACAACTTATTGTTGGAGAT
AAAGAAATAGAGAATTTAGAGAAGTTGACATGCCGTGGTTTTAAAGGTGAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 531>:

GNMFU64F gnm_531

GGCCCTGCTGGTTATATTGCTGCGGAGTATGCTGGCAAACATAAACTTAAAACCCTAGTG
ATTGAAAAGCAATACTTTGGTGGGGTGTGTTTAAATGTTGGGTGTATCCCAACTAAAACG
TTGTTAAAAAGAGCAAAGATTATTGATTATTTAGTTCATGCCAAAGATTATGGTATCACT
ATTAATGGTCAAGCTAAACTTGATTGAAAACAACTGTTAAAACAAAAACAGGAAGTAGTT
GATAAATTAGTTGCAGGGGTAAAAACAATTATTAAGGGTGCTAAGGTAGAAAGTATTGAA
GGGGAAGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 532>:

GNMFU65F gnm_532

CCAAAAATGGTTTTGACCATTCTTGGTAAATTTCTAATAGTCGGGAGTTnTCCCGTGGTG
TTTGGTGACATTTGCAATAGGTTGTATAAATAATCTAAATTTGGATAAAAATTACTTTGA
TTATTGGTTGAAATATTAAAGCTTTTTAACGCTTCATTTTTATCAATTGATTCATCAATT
CTTTGATTAATTAAACTAACTTCTTTAATTGCATTTATGAATTTATCTTTAAATTTAATA
GTTGGTTTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 533>:

GNMFU68F gnm_533

GGTCAAAAAGCAGCTTTAGAACGATTTAGCAATTAGTAGTGGAACCTTAGCATATAATAA
CGAAATTAATAGTGGTTTTAAAGATGTTACTGTTGATAATTTAGGTGATGCTAGAAAGGT
TCAAATAGCTAAAGAAAAAACTACTGTTATTGGTGGTAAAGGCAATAAGGATAAAATCAA
AAAGCATGTTGAACTTCTAAACGGAAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 534>:

GNMFU70F gnm_534

TTGGTCCCATCAATTGGTTGGTAAATTTGGGAGGATGTACAAGAGTTTCTATATGCATTG
CCGGTAGTGAGTTTAAATCCAGTTGAAGCATTGGGGCTGGGATTGTTGTTTAAGCCAATG
GAGTTGCGCATCGATCGTCACTGATTTGAATTTGAACCAAGATGTACCTCTATCTGGCTT
TTGCCCTTTTGTTTGGCCAAACTACTGTTTAAGGTATATTTAGTCAAAGGTTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 535>:

GNMFU71F gnm_535

CCCGCCTTCAGCGCCAAAACCATTACAACTATGACATGAAACTTTTCTTTCATATTTGAT
GGTTTTGTTGCAACCATTAGTCATTTCAAAAAAGTTAATTTCAATTACTAAAGCAATATC
AAGGTTATAGGGAACAACAATTTGTTGTTGACGTTTTTTAGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 536>:

GNMFU73F gnm_536

CTACTGTTTTTTCATTTGAAGCGGATTCAACTGGCAGAGCACTAGTAAATACTCTAGTAA
TTATTTTGATTACTATCACCATTACTTTTCCACTAGCACTTTTAATTGCAATTTGACTTA
ACGAGTACAATAATTCAAAAGTGGTTAAAAATGTTTTTAACTTTGTAATTGATTCACTAA
GTTCAATGCCATCTATTATTTATGGATTATTTGGACTTTCTTTCTTTTTAAGAGTCTTGC
AGTTAAGTGCTGGAGGAGCTAATGGTACTAGTTTAATAGCAGGCATTCTAACTATTAGTG
TTGTTATATTACTCTTCCGGGTACCGAGCTCGAATTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 537>:

GNMFU76F gnm_537

CCCCCAAAGATAAAACCCCTCGCTTCAGGACATACTATCGCTTCTGCATTAATAGCTTTA
ATAAACTGTGCCATTTGGGTTAGCACAAAATTAAATAGTTGGGGATTGGAAAATACTGGG
GTAATGTCATAAAACAATGTACCTTGGTTGGGAAAATTTTCAAAGCGCTTGATTGCTTGA
TCAAGCAACTTAAAGTTTTGATCCATAAATATCTTTTTTTTAAAAACTGTTAATTCCTGC
AATTAACTGCTCTTCAATCTGATCAATCTCTTTAAAAGGATGTTTTTTGTGTTTTAAGCT
CAAACGGGAATGAACATAGTTGAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 538>:

GNMFU77F gnm_538

GACATCTTCTTTTCTATCCAGGGATAGTTACTTTTAAGCATGGTGAAGCACGGCATGAAG
CTTTAAAGATTATTCCTAGTGAATTACTTTTAAGTGAACTGACTCACCGTGATTAACCCC
TTCTCCTTTTCGAGGCAAAGTTAACTGACCTGAATATGTAGTTCATACTGTTAGCACTGT
TGCTGAAATAAAAAAAAATAGAAATTGCTGAAATGAAGCGAATTATTGTTAAAAATGCAAA
AAAATTATTTTGACATTAAAAGTTAAATAAAGCAATTTATTTAACAAATGGATGTTAGAA
CTGAAAGATTAAACGAATTGTTTTTTGTTTATCATAAAAACTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 539>:

GNMFU78F gnm_539

AAATTACCTTGCGTTGACAAACAAGATATTAAACCAGAAGAAGCAGACGAACTTAAAAAG
CGTTTTGTTGAAGTTGGTGCAACTGTTGAAGTTAAATAAAGATGGCAGTACAACAACGGC
GTTCTAGTAAACACCGTCGTGATAAAAGACGTTCTCACGATGCACTTACTCTACAAACTT
TAAGTGTTTGTAAGAAATGTGGAAAGAAGAAGTTATCACATCGTGTGTGCTCTTGTGGTA
TGTACGGTGAACTAAGAGTTAAAAAAGCTCACTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 540>:

GNMFU83F gnm_540

AGTTAGTTGTAAATTCGCTTCAAAAACACCAAAAGCTCACCAAAGAAATAGACCTTGATT
TCACCAAGCTTGATGAGATTATTGCAACCATTTTTGATGAAACTAAGAATCCAAAGACTG
GCTTTACTAACTTCATTAAGCAGTTTGAAAAAACCAAAGCAAAACTAACAAAAAAAGATAG
CTGAAATTACTAAACTTGATCATTCAACGCCAACAAATTATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 541>:

GNMFU84F gnm_541

ACTAGTTTCATGGTAATCAAAGTTAATAGGATCAATTCCTGCATAAGCAGTTTTAGGTAA
AGTACTGGTTTGGATAAACACCATTGCATCTTGTTTTAAACGAGTTTGAACTTGGTAGTT
CATCTCTTCTGGTTTGGAATTTATCTTAGGATTGGCAAACCTACCCAATAAGAATGATTG
GGTTTTTTGATCAAATGGAAAACTAAGACCATTTCCATCTTTATTGTATGGTTGATAATC
ATGATCATTCTTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 542>:

GNMFU86F gnm_542

CAAGAAAAATAGATCAGTAGGATCAATCCTTTTTTATGTACCTAGTTTTATTCTGATTAT
TGCTATTCTAATTGGTTCTTTTGTTGCTGGTAGTTTATTGTTGCAAGATGTCAATAATTA
TCGTGATTCTGCTTGGGAAGTTAGTTTATTTTTCTCACCTAATTTAATTGCAACTTTTTT
TTCAATTTTGTTAACAGGAACAGTAGTTAGTTATCTTTTCCCTCGTTATAATTTTGCTGA
AATTAAAGTATTTACTGATAAGCTTGAAGAAGTTAGAAAAGCATTGTTAAGTGATAATGC
TAATCACAGTTTATCTATTCAAGAAACGCTTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 543>:

GNMFU89F gnm_543

CTGGTTATTCTTGGCCTTTTTAGCGCGGTTAAAATGGTGCACTTATTTTTGGAGTTTTTT
AAAGCTTTGTTTCACAATTTTAAGCCAACGCTTTACTTCGTTATGTGCTTCTTGTCAGGG
TTGGGGTGAAGTAAGGTCAATCCCTAAGAGTTTAATGGTTTCAAGTGGCGCTAAACTAGA
ACCTGAACTGAGGAATTTAAAGTAATTATCTTTCATCTTTTTATCACCACTATTAATTTT
TTTAGCTACTAAAATACCTGCAACTTGGCCAATGGCATACTTGTAAACATAGAAGTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 544>:

GNMFU91F gnm_544

ATGTAAACAGTGTTAATTTAACAAATAATGAAAATGAAATTAAAGTTAAACAAACTAAAA
AAACAATGTGTGAAAGATGCTGAAATTTTCAAACAATCATTAAGCCAAAATTAGATCATA
ATTTGTGCTCACGTTGTTTTAAAGTGTGTTAAAAAAATAATTGTGAAAAGGTTTTCAGAT
CTTAATCAGATTGATATTTCTCAAGCTTGAAGTTTTCTTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 545>:

GNMFU92F gnm_545

GGCAAAACCCTCTTAACAATTCTTTGTACACAAATACTATGGCACTGGCAATAACAATAG
CAATGATAATGCTAAAGGGTAAAGAGATTAGTGAATAGAGAAAACTATTGCGTAACCCAA
CACAAAGTTAGATTCACTAAACAGATCCTGAAAGGTTCGTAAACTAAAGGATTGGGAGGA
GAGATCATACAGATCACTGTTAGCACTAAAACCCTTCTGTAAGCTTAAAAAGAAGGGGAT
AATGGTAAACAAAATTGTTGTTAAAAGCGCAGGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 546>:

GNMFU93F gnm_546

ACCTTTTTCGCTTTTAGGTAGTTTAAGAAAAGGTTATATGCTAGATGAAATGCTCTTAGA
ACAGTAAATATTTGCTACAATCATAACGCTTTAGTTTTAGTTGATACACCAAAATCCGT
AGTCAATTTATTAACTAACTAGTGAACTAGATTTTGATGAATAGCGCTGTAAAATATCCT
GAGCTGAAGATCAAACTTGAGTCTTATGATAGCACCCTTTTAGATCTCGCTATTAAAAAG
ATAGTTGAGGTTGTAAAGGGTGTGAACATTAAGATTAAAGGTCCTTTACCTTTGCCTACT
AAAAAGGAAGTGATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 547>:

GNMFU94F gnm_547

TCCTAAGTTATTTGATTACTTTAACCGAATTTGTTGATATTGGTGATCAAATTGTTGTTA
GTGGTAAGCCAATGTTAACTAAAACAAAGGTATTAACTTTAGCTGTTGAAGAGATGAAAA
TCATTGCTAAGTGTTTATTGGTTCCACCTGAAAAGTGACATGGACTTACTGATATTGAAA
CCCGCGCTCGCAAGCGCTTTCTTGATCTTACCTATAACTTAGCAATGCGTGATGTTTTTC
TGAAACGCACTAAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 548>:

GNMFU95F gnm_548

CAAAAATGAACTCACGATCCACGGAGGAGGAGTTGATTTAAAGTTCCCCCACCATGAAAA
TGAAAATGCCTTACACATGGCTTTATATAACCAGCCCATTACCAAACATTGGATGCATAT
TGGTCATTTGATGATTGAAAACCAAAAGATGTCAAAGTCATTGCAGAACTTCTTGTTAGC
AGTTGATTTTCTTAACTTTCATGATTTTCGTGTTTTGCGTTGGATCTTTTACCAAAAACA
CTATTAGCATCCTATTGATCTAAACCAATCATTGATTGAAAAAGCTAATAATGATATTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 549>:

GNMFU96F gnm_549

AACCTAGTGAAGCAATTGAAGCAGTATTGAAATATTGGAGTTTTCATCAGGACTTAAATT
TCATTCTGATCGGTGATGAAAAGGCTTTTGATGGTCTTGATATACTTCCAAAAAATATTA
CAAAAAAACTTGCTAATTCTTTCATTGAAATGACCGACACTCCACTAAGTGCAAGAAGAA
AAGTTAACAGTTCAATGCAAATAGCCATAAACTTAGTTCGTGAAGGTAATGCTGATGTTG
TAATTTCAGCAGGCTCTTCAGCAGTTTATGCTTCTTTAACAAATGATGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 550>:

GNMFW16TF gnm_550

CAGGCATTTATCTGGAAATAACTGAAACCGAACAGACCTAGATTCCCGCCTGCGCGGGAA
TGACGGCTGCAGATGCCCGACGGTCTTTATAGCGGATTAACAAAAATCAGGACAAGGCGA
CTAATCCGCAGACAGTACAGATAGTACGGAACCGATTCACTTGTTAAAGAATCGTTCTCT
TTGAGCTAAGGCGACGCAACGCCGTACTGGTTTTTGTTCATCCACTATAACTAAGGAAAT

TCAAATTAACTTAGAATTATCCCTATGAGAAAAAGCCGTCTAAGCCGGTATAAACAGAAT
AAACTCATTGAGCTATTGTCGAAAGTTCAAATTTCCATTTTAAAACAATTAGTAAAATC
GAGTTTATCCTAATTGTCCAAGACAACCCCTATAATACTATAATTCAGAATATAAAAATG
GGTTACATCTAAACATTACGGAATTTTTATTCCCTCGCCTGAATTCTATTGTCAGATTCA
ACGAGACCTCATCATGTCAACGACTCCAACCTTCCCTACACAGACTTTCAAACCGACTGC
CATGGCGTTAGCTGTTGCAACAACACTTTCTGCCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 551>:

GNMFW46TF gnm_551

TTGTTAATATATTTTCGCGATTAACGTTTCTTAATATTAATTCGGGTACAATCCTTTCCG
CTGATTACCGCTGCCGTTTCTCCCTTTTCGGCAGTGCAGCAAGTAAGACGTTTTCCCGCA
ATGTATTGACCATTCATACTTACCCTTGGTATGAATGGTTTTTTTGCACGTTGAAAATG
CCGTCTGAACGTTGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTG
TGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAA
GCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCT
TTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGA
GGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTC
GTTCGGCTGCGGCGAGCGGTATCAGCTCAATCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 552>:

GNMFW72TRC gnm_552

AACCGCTCTGCCGTCATTCCCGCACAGGCGGGAATCCATACCTTAGCACAACAGTAATAT
TCAAAGATTATCTGAAAGTCCGAGATTCTGGATTCCCGCCTGCGCGGGAATGACGAATTT
TAGGTTTCTGATTTTGTTTTTCTGTTTTTGTGGGAATGATGAAATTTTGAGTTTTAGGAA
TTTATCGGCAAAAAATAGAAACCGCTCTGCCGTCATTCCCGCTCAGGCGGGAATCTAGACC
TTAGAACAACAGCAATATTCAAAGATTATCTGAAAGTCTGATATTCTACATTCCCACTTT
CGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACATGGTGCAGGTTCATGGGAATGAC
GTGGTGCAGGTTCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 553>:

GNMFY91F gnm_553

GTGCGCCGATTTTCCAAATCTGTTTGAACACCGCCCAATCCGGTTTGCCGAATTTCGCCG
TCAGTCCGAATGGGCGGAAGAAATTTTCCTTGGCGATATGAATCTCCTTTGGCCGAGTCT
GCCGCTTCTCGATCTGTTTCGGCGCCAGTCCGCAGCCTGCGCCGCCCAAAGCGGGCATAC
CGAATTTGCCGTAAACGAAAATATAGTTCAGCGGCACGTTCAACACAAACGCCGCAAAGC
TGACCAACATAATCAGGCGCGGGCGGTTCAGGCTGGAAGTGTAGGCGTGCAGCGCGCGGT
GTACCATTGCCGCCGGCATCGCCAAGCTGGTGAACAACATATACTGCGCCATCGTGCCTT
CCACATAATCGCTCAAGGTCAGCCAGTTGCGGAAGGCGTAATCGCCGCCCACATCAAGAC
CATGCCGAACACGCCCAAAAACAGCCCGAACCAAATCCCCTGCCGCCCCGTTTCGCCCAC
TTCGTCGGTTTTACCCGCGCCGTAAAGCTGGGCAATCATCGGGTTCAGCGCCGCCATAAT
GCCCATAAAGGTAATATAAACCGTGGCAAACGCGCTGCTGCCCAAAGCCAACGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 554>:

GNMGA51TR gnm_554

AAATTATTTTATTTGTTATGAAAACCTTCGAAAAAACATGGTCTGCACAATATCGGGAT
ATGGAAATTTCAGTACGGAATTTTTGGAATTTGGAGCGGACAAGGGCGGAAGTCTATATC
AACGGAAGGCGGGTTTATCATAACGAAGCCGAAATGGCGTCTGCTTCTTTGCGTTAGCTA
ATGGGGGAATACCTGGAATTTGAAGAAAGCGGTACGAAAATTACCGTTGAAATCGGCAGC
GCGTGGCATTTTAATGAAACTATAAGAAATATTAATACACATTTAAnGAGGTACGAnACT
TC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 555>:

gnm_555

AAAGACGGCGTTGATGGTTTTAACATTTGCGCTCATTCGGATTTGAGCCATGGCAATCTT
CCTTTAATGTGGTGGAAATCATGAGTGTTGCCGACACTGTACTGCTGCCTCCGGTCGAAC
TGCCGTTTCGGGATATGGCAGACGCATCCTTCCTAACCGCATCCGAATACCCCCAAACCT
GACCGAATGCAAAACTGCTGCCGGAAACGGTTTGTATGACACTTCTACTACTGGATGTTG
CGGGCGCATTATAATATTTTTCCATCCGTCTTGAAACATTTATTTACACTTTATTTACAC
TGCGGCGGCAAATCGGTATACGAGCGTCAATACACGTTAAAATGGCGTTTTGCACCAGTT
TGGGAGTGATGATGGAAACACAGCTTTACATCGGCATCATGTCGGGAACCAGCATGGACG
GGGCGGATGCCGTACTGATACGGATGGACGGCGGCAAATGGCTGGGCGCGGAAGGGCACG
CCTTTACCCCCTACCCCGGCAGGTTACGCCGCCAATTGCTGGATTTGCAGGACACAGGCG
CAGACGAACTGCACCGCAGCAGGATTTTGTCGCAAGAACTCAGCCGCCTATATGCGCAAA
CCGCCGCCGAACTGCTGTGCAGTCAAAACCTCGCACCGTCCGACATTACCGCCCTCGGCT
GCCACGGGCAAACCGTCCGACACGCGCCGGAACACGGTTACAGCATACAGCTTGCCGATT
TGCCGCTGCTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 556>:

gnm_556

CTAGAGGATCCCGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGGTAC
ACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGA
GTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGTGTGTTGTTTTGTTTGC
AAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGGTACCGAGCTCG
AATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA
CACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAA
CTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAG
CTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTcCG
CTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTC
ACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGT
GAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCC
ATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAAGTGGCGAAA
CCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 557>:

GNMGJ04R gnm_557

CATTCCATAGTTTGCCTTTTTACTCTGTTAATTGTGTCTTTTGGTGCATAGCAGTTTTAA
AGTTTGATATAGTCTCACTTGTCTATTTTTGCTTTTGTTGCCTGTGCTATTGGTGTCATA
TCCAAGAAATTATTGTTATATCCAATATTATGAAGCTCTTCTTCTGTGTTTTCTTCTAGG

AATTTTATAGTTTTTTATTTTAATGTTTAGGTTTTTAATCCATTTAGAGTTAATATTTTG
CTTATGGTGTAAGATAAAGGTCTAATTTCACTTGTTTGCATGTGGATGTCCAGTTTTCCC
AGGGCCATTTGTTGCAGATTGTCCTCTCACCCATTCTTTCTCACCTTTAACACTGCTGTG
AATGGCCTTTATTTTCTACCTTACACCATTTGACTCTCTCCTTCCTAGAAAAAAACCTTT
CTCAATCCCACTTAAACTCATTTAGTGGATTGCATTGGTCTGGATTATCAGAGGTTTCTG
TAATTAGGTTGGCTGTGCCAATAAATATCTTCATGGATATCCTGAATTTGTTTTGTATAA
AGAAGAAATAGGCAGATGACATTGGTAGTGGATCGGTGAGAAATTTGCAATAAAACTCAA
ATGTGCAAGATGTGCCACATTTGTGTTTCTTTCCTCAAATTACAAATATTGGATTTGCC
CTCCATCCGTCACAATTTCTGGCAATTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 558>:

GNMGK65TF gnm_558

AGCATGGGCAGCGTATCGGCGGCGGCGGCAAGAAAGCTGCCCGCCGCAAACACGACCAGT
CCCGCATAAATGGTTTTCTTGCGCCCGAACTTGTCGGAAGCGATGCCAAAGGGAATTTGA
ACAAAACCCGGGGCAACCCCTTAATGGCCAATGGCAACCCCGACAACGGTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 559>:

GNMGL93TR gnm_559

CGTCTGAAGGCTTCAGACGGCATTTGTGCGTTTGTCGGGCGGTGTTTAGGGGGCGGTAAC
GGCGTGTTTCGGCACTTTGTCCATATCCCAGTGTGCCACCGCCCAGTCGAGCAGTTCGGC
AGGGCGGTCGGTTTCCGGTGCTTCGGGCAGCTTGAGGTAACGGAACACTTGGCGGATGAG
TTGTTCGCGGCGGTTTAAAGCCAATGCGGGGGCGAGCGTCTGTTTCGACCAGTTCTGCCC
TTGTGCGTTGGTCATCAGCGGCAGGTGGGCATATTGCGGTGTCTGAACGTCCAAACACTG
CTGCAAATAGGTTTGGCGCTGCGTGGCAACGAGCAAGTCTTGTCCGCGGACGATGTGGGT
AACGCCCTGTTCGGCATCGTCGGCAACGACGGCGAGCTGGTATGCCCAGTAACCGTCTGC
ACGACGCATGACGAAATCGCCGATGTCGCTGGCCAGGTTTTGGGCGTAACCGCCGACGAT
GCCGTCTGAAAAGCCGATAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 560>:

GNMGO35TF gnm_560

GAATGACATATTCATAAGTTTCCCGAAATTCCAACATAACCGAAACCTGACAGTAACCGT
AGCAACTGAACCGTCATTCCCACGAAAGTGGGAATCTATAAATGAAAAGCAACAGGCATT
TATCGGAAATAACTGAAACCGAACAGACTATATTCCCGCCTGCGCGGGAATGACCGCTGC
AGATGCCCGACAGTCTTTATAGCGGGTTAACAAGTGTCAGGACAAGGCGGCTACGCCGCA
GACAGTACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 561>:

gnm_561

AGCATGGCGCACAGCAATGCCGTCTGAATACGCCTCCCGCTCGGTACACGGCGAGATCGG
CAATGGCAGCGGTACTTTGGCCGCCGATATGCTTAAGTTCAGTAACCTTACGCCACCAAA
ACCCTTGCTAGCTAAGGGTTAAACAGCTCACTTGAAATCTACTTAAGTCTAATCTAAACT
ATCCAATATGGATAGATTTTTAAACATAGGGCAAGCAGCAAAATTATTGTAGCTGAAAGC
ACAATCACTCGCTGGTGGTCTCAAACACGTGCCGACTACCTCGCCGAAAACACTATCAGC

CGCGATAAACCGTGGGAAAAGCTCGTTATCAGCCGCCGCACTTGGTACTATCGCGGGAAA
CCGATGCTGTCTGAAACGCAACAGGAGAAAAATAATGAGCCGTTACCTGATTACCTTTGA
TATGGATACCAACTGCCTGAAAGACAATTACCACGGAAATAACTATACCAATGCCTACTC
CGATATTAAAACCATCTTGGCTAGACATGGATTTGAGAACATTCAGGGCAGTGTTTATCT
AGGCCGTGAAGGCATCAGTGAAGCACACGGAACAATAGCCATTCAGGAACTGACCGCTCG
GTTTGATTGGTTTTACTCCTGTATTTCAAACATTAAGTTTTACCGCCTTGAAAGTGATTT
GAACGCACAATTTATCGCTGATGGTGTGTATCAAGCCAAACAGGCTTTCCTTCAACGTGT
TGAACAACTTCGTATATCCCTAACAGAAGCTGGATTGTCTGATGAGCAAATCAATCAGGT
TCTGGAAAAAACAGAAATTTGAATTGGAAAGTCCTAACCTGAAATTAAATTAACCTCCTTT
ACTCACCAACATCCGCCGCAGCTCTGTCAGTTTTGGCGCGCTGCGGCGATTTCTGTGCG
TTTTAGAGCTTCGGGTAsGGTGTGAAACAACTCACTCGAAATTTACTTAAGTCTAATCTA
AACTATCCAAGCAGTAATTAGTACAwAAAAGGCAAACTTATTTAGGAGTTTAAAATTGC
AGCTGCGATAAACCGTGGGAGAGTCTCGGCATTTCCCGCGCCACTTTGTACAAACGTGGC
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 562>:

gnm_562

CATATAGCCGATGGTATAGATATGCACCATCAACGACACGCCCGTTACCACGACCATCAT
CATCGCCGTCATCGTATCGACCAAGAAGCCGACGGAGAAATCCAAGCCGCCCATTGTCAG
CCAGGTATAGACATTCTCGTCAAACGTGGCGCGGCTGCCGTCAATAAAGCCCCACAGCAC
ATAAGCCGACAGCACGGCGGACACCGCCACGCCGAGTATCGTAACCGTATGCGCACCGGC
ACGTCCGATTTTGTTGCCGAACAAACCCGCAATCAGCGAGCCTGCCAACGGAACAAGGGC
AATTATCAAATATAAAGTCATATCGTTCATTTGATTGAATCCGATTGATTTAAAAATCTA
TGTTTGTTTCGTACAAAATTACTTCGGAAAAACAAATCCAACACGCTCCAATCGTTTGCG
TGCCACAGCTAATTGCTCTTCAGTAAATAAATCACACCACGGCTTTTGTAACACCAGATA
TTCCATACTGTATTTCAAGGCGTGGACTCCGCCACCACTCAAAATCAGCTTGCTCGGCGG
CGGTTAGTTCGGAGATGACCACTTTGTCCCCCTCTTTCAACCCGCTTTTTACTTCGGTAT
TCATACTGTCTCTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 563>:

gnm_563

CTTCAACCATGCCAAAACGGGCAGGACGGCGGTTGTCGACTTGCTCATCAACACGCCCGC
CATCCAAGACTTCATCCTGAAGGGCGACCTGATGAACATCAGTAAAATCATGGAAACCGC
CAAAACCGACGGAATGCAGACGATGGATCAAAACCTTTTCGAACTGTACCGTCACGGCAT
CATCAGTTACGAAGAAGCCCTGCGCCAGTCCGTTTCCGCCAACAACCTGCGATTGCACAT
CCAACTGCACAAAGAAGGCAAAACGCCCGAACTCCTTTACGACAGGGTCAACGGTCTCAA
CCTCATTTCCTGATCCGCAAAACCCAATGCCGTCTGAAAACCGCATCCCCGTTTTCAGAC
GGCATGATTTTATCCGTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 564>:

gnm_564

CGAACAGTCGGCATTGCGCCCCGAATTGTGGCAGGCGTTCCGACCGTTGGGGCTGACGCA
TTTGGTCAGTATTTCGGGTTTGCACGTTACGATGGTGGCGGTGATGTTTGCGTGGCTGGC
GAAGCGGCTGCTTGCCTGTTCCCCGCGCCTTCCTGCACGGTCGCGCGTGTGGGTTTTGCG
GGCGGGGTGTGCATGCGCTCTGTTTTACGCGCTGCTTGCCGGTTTTTCCGTGCCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 565>:

gnm_565

ATAGCGGATGTGGTCAAGTGTATCGACGAATACAGCAACCGCCCGCACGGCGAGCTGCCC
CGACATCCTGACGGCGGGCATTATACGCCTAAGGCTTATCGGGAAATGAGCCTGGAACAG
GACGGTATCGCGCCGGATATGCTGTCGGCGCAAGAGCTGGCGACGATGTTTATCCCGCAA
GAGGTGCGAAAGTTACAGCGCGGCTGGCTGGATCATGCTTAACAACTCTTATTTCTCAAC
CGAGCTGGCGGAGTATCACAAAGACGAGGTACGGGTCAGCTACGATCTGAGCGATGCGTC
GGCGGCCAATGTGTTTGATATGGACGGCAAGTTTATTACTAAGGCGCAGGCCAACGGCAA
TACCCGCGAGGCTTTCCCGACGGCTCGTATCGACCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 566>:

gnm_566

CCTGGGTTCATCGTCTTCTTCCCAATCTGACCCCAAACATTCGCCTTTTGGTTTGACGTG
ATGACAGGTAAACATACCTTTATTTCGGTCTTCACGGGCTTGGTTCGGGCTGTATTCGCC
GTTGAAAAAGTCTTTTGCGATGTCAACGCGTGTGATTTTTGGGCGGATTGCATTAGTCAG
GAATGAGAAAAGTCGTGATTCCCAGCCTTCTTTTGCGACGCCGCAACCGGTGCCGGTCAG
TTCGAAAAGAATGGCATTTTGTTGGCCGCCAAAATGGACGCGACCGTATAGGGCGTCTTC
CGAACCCATCAACCAACAGAGCTCATACATACGACCGCCCGAAACTTTGGATTCTTTGTA
GATACCGGAACCGACAACTTCTTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 567>:

gnm_567

CCGGCATCCTGCCCGAAGCGATGCTCAACTATCTGGCACGCTTGGGCTGGGCGCACGGAG
ACGATGAGTTCTTCACAATGGAACAGTTCATCGAATGGTTTGATTTGAAAGACGTTTCCC
CGTCTCCAAGCCGTATGGACTTGAAAAAACTCTACTGGATCAACGGAGAACACATCACAA
TCACACACAACGGCAAACTCGCCGAACTCGTCAAACCCCGCCTTGCGTTGCGCGATATTC
ATGAAACCGAAGAACCTGCTTTGGAAGATGTGTTGGAACTGGTCAAAGACCGCACCCAAG
ACTTGGTCACGCTTGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 568>:

GNMGS92TR gnm_568

CGCCCAAGAGTGCGGACATCGGTACGAAATGCGCGTCTTTCAAACCGAGCTGTTCGGCAA
GTCGGCGGTATGCCTCCACAATGGCGTTGAATTTGTCTTCGCTGTAATCCAGCAGGTCCA
TTTTGTTGACCGCCACCACAATATGCGGGCAGTTGAGTTGGCGGAGGATGGCGGAATGGT
GTTTGGCCTGCGGCAGAAGCTGCAAGGGCTGCGCGCCGAAATCCAGTTGGGATGCGTCAA
CCAGCACGACTGCCGCCGAAGCGGTGCTTGCGCCCGTAACCATATTGCGCGTGTATTGTT
CGTGCCCCGGAGTGTCGGGGATGATGAATTTCCGTTTCGCCGTGGAAAAATAGCGGTATG
CCACATCGATCGTAATGCCCTGTTCGCGTTCGGCTTCCAGTCCGTCGGTCAGGATGGCGA
GACCAATGCCACGGTTTCCATGCCGTCTGAAACCGGCGCGCCCGTTCCCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 569>:

GNMGS94TR gnm_569

ATCTGCTTTTTTCACCGCGCGCGGTTTGCCGTCTTTATTGGTAAATTTGGGCGGATCGAT
TATGCTGCCCACAAGCCGGTAATCCACTTCGAATTTATGGCATGAATGATGAATCAAAAA
CCGGTTGAAGCCGTTTTTGCTTTGGGCGATGGTTTGCATATTCAAAAAATCGCCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 570>:

GNMGT51TR gnm_570

CAGGATCCTTGGTGGCCTCCTGCACGGGTTCGGGCAGGCTTAAAAGGCGCAGGCTGTTGG
AAATCGCGCTTCGGCTTTTACCGACGGCTTGGGCGATGGTTTCGTGGGTCAGCCCGAACT
CGTCGGCAAGGCGTTTCAAGCCTTGTGCTTCTTCGATGGGGTTGAGGTTTTCGCGCTGGA
GGTTTTCGATCAAACCCATTGCCAATGCGGTTTCGTCGCTGATGGTTTTGATAACGGCGG
GGATTTCGGTCAGGCCGGCAATCTGTGCGGCGCGCCAACGGCGTTCGCCTGCAATCAGTT
CGTATCGGGACAGTCCGTGTTCGCGCACGATGACGGGCTGTATCACGCCTTGCGCCTTAA
TCGAATCTGCCAGTTCCTGCAAGGCTTCGTCATCGATTTGAACACGCGCCTGATAGCGGC
CGGGCCGGATATCTTTAACCGCAACCGTGGTCAATCGGTCGCCGCTGCTGTTGTCCGCGC
CGTTGGCGAGCAGCGAATCCAAGCCGCGCCCCAATCCGCCTTTTACTTTTGCCATACCGC
CCTCCCGTGCCTATTCAGATAGGATGTTAAATCGGGTATTTTATCGGATATTGGGTGTTG
CCGACAATTTGTATCCGCGTTTATCGGATTTCTGTTTTTTCACTATAATAGCCGGTTTGC
CGTTGCAnGCGGTTTTATGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 571>:

GNMGT89TR gnm_571

GCCTGTATGCTCTTCTTTGAAAGTTTCGTATACGTCATGGGCTAAAAGGGCTGTTCCGAC
ATAAGGAACTGCCCTTGTGCTTAATTTCGCGCCTAAGCGGGCAAGTTTGCCGACCCCCGC
CAATACGCCAGCGCGGGAAACTGATGAAGATACAACCGAACTAACTTTACCCGTACTTGA
TGCTCCAGTAGATACATGCCTAACTTTTAAATCTTGAGCTTCTGAAGTTAAATATCTTCC
CGATTCTCTATCAAATACACCTTTCCAAATTCTTCTTCTTTTGTCATCTGAACCTCGAAT
ACCTAAnATAGTGGAAnnGnTCCGACAGCAGAGTCCCAAGAAAATTACCCGGAGCATTTA
CTGATGCCAATGCAAATTTAGATACAAAAAAACTAAAGCATAGGATAATCTTTAAAAAAT
TTCGCCCTAGGATAATAAACATAACATTTTGCTTCATCTAATTTAATTAATAATGTAGAA
GAATCAGGGAATTGAATTTCTATAAAATCTCTATCATAACGATGAAAGAAATTCCTAAAA
ATATCAAATGAAAACGAAGTTTTAAAAACCCCTTTTCTAATCAATTCCCTATAATAAATT
AACGCTTGTGGTAAATCTCTATAAATATGTGAATCAGTTTGAAAATTTAACTAAATGATA
TTCAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 572>:

GNMGT90TR gnm_572

TGAATATCCAGTCCAACCTTGACGAACCCTTTTCCGGCAGCATTACCGGTAACCGCGCGA
AGAAGCCAAAGCCCTGCTAGGCGGCGGCAGCGTTACCGTTTCCGAAAAAGGCCTGACCGC
CAAAGTCCACAAGTTGGGCGACAAAGCCGTCATTGCCGTTTCTTCCGAACAGGCAGTCCG
CGATCCCGTCCTGGTGTTCCGCATCGGCGCATGCGACTTCCAACCAAACCGCACCGCCAT
CCTCGATCCTGTCGGCTACTCGCCCAAAACCAAATCTGCACTTTCAGACGGCAAGACACA
CCGCAGCAGAACCATTTATGCAGAGTCCCAAGAAAATCAAAACGCCAAATCCCATACCAT
TAATCAGAATTCTTCCTATTTTTTTCGAATCCACTATTTCTTCCAAAGCGGCAAAACCCAT
ACCGTCCGCAAAGGCGAAACGGTCAAACAGATTGCCGCCGCCATCCGCCCGAAACACCTG

ACGCTCGAACAGGTTGCCGATGCGCTGCTGAAGGCAAACCCAAATGTTTCCGCACACGGC
AGACTGCGTGCGGGCAGCCTGCTTCACATTCCGAATCTGAACAGGATAAAAGCGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 573>:

GNMGU42TR gnm_573

CGTTGTTCGGTTCGGTTTTCGTCATACCAAATTCCTTATTTCTTCTGTCTGAGATTTATG
AATTATTTGTGCAGCCCGCATTCTTTGCTGTTTCTGCCTTCCCACCACCACCGCCCGGAG
CGGATGTCTTCGCCCGCCTTGACGGGGCGGATGCAGGGGTCGCAGCCTATGCTGGGAAAT
CCTTGACGGTACAAATCGCTGTGAGGCACATTGTTGGAGAGGATGTATGCCCACACGTCG
TGTTCCGACTAGTCGAAAATCGGGTTGTATTTGCCGATGCCCCGTCCGGCATCGTATTCG
GCATACAGCAGTTCCGTGCGTGTGGCGGATTGTTCGCGGCGTTGCCCGGTAAGCCACGCG
TCCGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 574>:

gnm_574

TGTCGCGCTGACGCGTGCCGAGGAACAGCTCAACATCtATtCsGCgTaCTCtCCAAkACs
GCaAAAACAACCCCCcGCCTACwTGATTGAAGGCTCGccAgaCaTsCGCGGGAATGACGG
CATTTCTGCGGCAATCGGATTATTTCCAAACCAAAAGCGCGTGGTTGCGTTTGCCGCGCC
GAAGGATAGTGTATTTGCCGAAACGTTTGTGTTCGCCGTTCAGCAGGCAGGCATCGTCGG
GGCGTTCGGCGGCGTGGTTGGGGTTGTTGGCTTCGGCAGGTTTGCCGTTGAGCAAAACCG
CTTTGCTGTTCACAAAGCCGCGCGCTTCTTTATTGGAGGATGCCAAACCGGTTTTTACCA
AGGCTTCGACGACATTGATGCCGTCTGAAACTTCAAATGCAGGCAGGCCGTCGAGGGCGA
GCTGCTCGAAGTCGCTTTCGGTCAGGCTGCTTTGGTCTTCGGCAAACAGGCTTTCGGAAA
TGCGTTGCGCGGCGGCAAGGGCTTCTTCGCCGTGAATCAGGCGGGTCATTTCTTCGGCGA
GGATGCGTTGCGCTTCGGGCTTGCTGCCGCTTGCCTTGTCTTTGGCTTCGATGGCATCGA
TTTCTTCGATGGACAGGAAGGTAAAGTATTTCAGGAATTTATACACATCGGCATCGGCGA
CTTTCAGCCAGAATTGGTAGAACTGATArGGCGAGGTTTTTTTCGCGTTCAGCCATACCG
CGCCGCCTTCGGTTTTGCCGAATTTGGTACCGTCTGATTTGGTTACCAAAGGCAGGGTCA
GACCGAATACTTGTTTTTGGTGCAGGCGGCGGGTCAGGTCGATACCGGCGGTGATATTGC
CTCATTGGTCGGAGCCGCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 575>:

gnm_575

TACCGCGCACGGGCGTTTGAAATAGAAACCGATCAAGAGATACGACACCAAGCCCACCGC
TTCCCAACCGAAGAAGAGCTGAATGAAGTTGTTGCTCATAATCAGCATCAACATACTGAA
TGTAAACAAAGAAATATAGCTGAAGAAGCGTTGGTAGCCGACTTTTTCATCGTGCATATA
GCCGATGGTATAGATATGCACCATCAACGACACGCCCGTTACCACGACCATCATCATCGC
CGTCATCGTATCGACCAAGAAGCCGACGGAGAAATCCAAGCCGCCCATTGTCAGCCAGGT
ATAGACATTCTCGTCAAACTTGGCGCGGCTGCCGTCAATAAAGCCCCACAGCACATAAGC
CGACAGCACGGCGGACACCGCCACGCCGAGTATCGTAACCGTATGCGCACCGGCACGTCC
GATTTGTTGCCGAACAAACCCGCAATCAGCGAGCCTGCCAACGGAACAAGGGCAATTAT
CAAATATAAAGTCATATCGTTCATTTGATTGAATCCGATTGATTTAAAAATCTATGTTTG
TTTCGTACAAAATTACTTCGGAAAAACAAATCCAACACGCTCCAATCGTTTGCGTGCCAC
AGCTAATTGCTCTTCAGTAAATAAATCACACCACGGCTTTTGTAACACCAGATATTCCAT
ACTGTATTTCACCGTCATTCGGGACATTTCCGCCCTGCTCGGCAAACCCTTTGTCGCACC
TGCCAAAACCCAAGCCAAAGCACTCGCCCGGATAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 576>:

GNMHA81TRB gnm_576

AGAATACGCGCGGGTCAGAACACGCCGACCACCGTCCGGGTTTTGTCGTTTTGAAATATT
CCTCTAAATACGGCAGGCGGTTTTTATCGACGGACAAACCGGTTTTCACGCCCAGTTTGC
TCAAGGTGTCGAGCATACCCAAATCGTAAACGGCGATGCGTTCGGGGTTTTGCGGTATTT
GAACGTCGCCGCGCGCGGTTTTGACGGTAACGGACGCGCCTTCGGTTTGTGCGGCGGAAA
CCGCCTGTTCTTTGGCTTGTGGGGCAGAGTCGGAATTTTGCGGCGAACACGCGCCCAAAG
CGAGGGCGGTGCATACGGCTAAAGCAGTCAAACGTAACATACGTGTCTCCAAAATGGGGG
ATATTGGGGCAAAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 577>:

GNMHC73TF gnm_577

TACTCTAGAAGGATCCCCCGGCTAAAGAACTCGGCTACGCCTCCGACCTCGACCTCGTCT
ATCTCTACGACGACCCCCACCCCGACGCAGGCGACGTGTACAGCCGCCTCGCCCGCCGCC
TGACCAACTGGCTTTCCGCCGCCACTGGCGCAGGCAGCCTCTACGAAACCGACCTGCGCC
TGCGCCCTAATGGCGACGCCGGTTTCCTCGCCCACAGCATCGCCGCCTTTGAAACATACT
AGCGCGAAAACGCCTGGACGTGGGAACACCACTCGCTTACCCGCGCCCGCTTCATCTGCG
GCACGTCCGAGATTCAGGCGGCCTTCGACCGCATCCGCACCGAAATCCTCACCGCCGAAC
GCGACCAAACCGCCTTGGCAGGCGAAATCATCGAAATGCGCGAAAAACATGTTCCCCACC
CACCCGCCTGCCGACAGCAACGTCAAATACGCGCGCGGTGGCGTGGCCGATGTCGACTTT
ATCGTCCACTATCTGACACTTGCCCATGCCCGACAGTATCCGCAACTCTTGGACAACTAC
GGTACCATCGCCCTCTTAAACATCTCCGCCGACTGCGGTTTGATTGACAAAACCCTCGCC
GGCCACAGCCGCACCGCCTATCGCTTCTACCGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 578>:

GNMHF24TR gnm_578

AATTCCAGCTCGGTAGCATTACGAATTCGAGCTCGGTACCCAGCACAACCCCTTACATGT
ACCTTGTGTGGTGTCATTGGATCCTAGCAAGAAAGGTATCCATTTGTTCCCCACAAAATC
TTTATCATGCACGATTGAGTAGGATCCGCTGTTATAAGTTTTGCCGTCTGCACCCGTATA
GGTATAGCCGTTTTTCTGTAAAACATCGGCGTAATCATTCTGCACATTTGTGGCTGTACC
ATAGAAACGTGCTTTTCTGATTGGGGCAATGCCATTTTGTTTTTGATTGTTTACCCAATC
TTTTAAGGAAACGCTTGCTGTAATTCCCCCACGACTGTGATTACTGGTATCAACCGACCA
GCCGTTACCCATTTTTTGAACCTCTCGATAAATATCTTGATTCAGTTTTTCTGAATTGGT
TTTGAGTAAATAGCCTTGGCACACTTTATTATTTAATTGGTCGTAACCGACATACATCAG
TTCAGAAACAAGACTTGCACCGAGCCATAAAAAATCTTTTATTTTGTTATTAGAATCAGA
TTTATATTTCCCTGTTGGAGGATTCATGACTGCAATAAGCACACTACCGTTTGTACTAAT
ACGATGTTGTTTTGCTGCGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 579>:

GNMHF55TR gnm_579

GTACTATCCGTACTGTCTGCGGTTCGCCGCCTTGTCCTGATTTTTGCTGATTCACTATAT
CGACATCGCCAAACGAGACTTCGTCATCGCCGTTTCGTCTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 580>:

gnm_580

AATAGATTAAGATATAACTATTAAAATATTTTTAGATAGGATTATCGGAATTAAAGTCTT
TTATACCCAGTCGTCCGATGCGGTTTATAGCGTATTGTTGCTATATGTTCGTTATGTTAT
ATAACGGTTGCATCAAAATTTACGCCCACAGGCTTTCCCGACGGTTTGAAAGTTTGATTT
TCGATAACTTGGAGACTTAAACAATGCCTACCCAATCAAAACATGCGTCTATCAATATCG
GTCTGATACAGGCAAGGGAAGCCCTGATGACCCAATTCAGGCCTATTCTGAATCAGGCGA
ATATTACCGATCAGCAATGGCGGATTATCCGTCTTTTGGCGGAAAACGGCACGCTGGACT
TTCAAGATTTGGCGAATCAGGCGTGCATTTTGCGCCCCAGCCTGACCGGTATCCTGACCC
GCCTTGAAAAAGCGGGTTTGGTTGTCCGCCTGAAACCTTCCAACGACCAACGACGTGTTT
TTCTGAAGCTGACTGCCGAGGGCGAGAAGCTGTATGAGGAAATCGGCGAAGAAGTGGACG
AACGCTACGACGCTATCGAGGAAGTGCTGGGCCGCGAGAAAATGCTGCTGCTTAAAGACC
TGTTGGCAGAACTTGCCAAAATCGAGGATGCGTTGAACTCGTAATACGCCGTAACGCGCG
GAAACGTCCGACCGACGGCTTTTTGAATCAAAACTGCTGCACATGGGGGATGCCTTGTGT
GCAGCATTCTTATATAGGGGACAGTTTAAAGGGGAAAAATGGCGGATTTGCAGAAAAATT
TTCAAACTTCGTTCCGTGATGCGATGGCATCTTGCGCGGCAGGCGTTCATGTCATCACGA
CAGACGGTGCGGCAGGGCGTTACGGCATTACAATGACGGCGGTCGCGCCGGTTACCGACG
AGCCGCCGACCGTGATGCTGTGCATCAACCGGAGTGCGCGAATCATTCCGATCCTGTCGG
AAAACGGCAGCCTCTGCATCAATACGCTGGCGGACGAACATCAGGATGTTGCCGAACATT
TTGCCGGGCTGACCGGCCTGTCGCCCGAAGAGCGGTTTGCCTACCACATCTGGCATCGCG
GCAAAACGGGACAACTTGAAATAGAGGGCGCGTTGGCGCACCTGCACGGGCATATTGTCG
GCAAACATGAAATCGGCACGCATTTTGTGTTTTACGTCAGGCTCGACGAAATCAAAAACT
GCGGGTGCAAACGCCCCGCGCTGCTGTATTTCAGACGGCAGTTTAGATTTTTAGACTGAT
ATTCGGACAGATATATGAAAGCGATGATACTGGCGGCAGGACGCGGCGAGCGTATGCGCC
CTTTGACCGATACCACTCCGAAGCCGCTGCTCGATGTGGCGGGTAAGCCTCTAATCGGTT
GGCACCTATGCCGTCTGAAGCAGGCGGGGTTTACCGAAATCGTCATCAACCACGCTTGGC
TGGGTCGGCAGATAGAAGATGCTTTGGGCGACGGCTCGGCTTATGGCGTGAACATCGCCT
ATTCGCCCGAACCCGCAGGCGGTTTGGAAACGGCAGGCGGCATCGCGCAGGCATTGCCGC
TGTTGGGTGGGCAGCCGTTTTTGGTGGTCAACGGCGACGTGCTGACCGACATCGATTTTA
CCGCCGCGTTTCAGACGGCATCGTCCCTGCCGGAACATATTTCCGCCCATCTGTGGCTGG
TGGAAAATCCGCCGCACAACCCCGACGGCGATTTTTCCCTGCTGCCCGACAGCAGCGTGC
GGCCGGAAGTAAATGGCGGCAACGGATTGACATTCAGCGGCGTGGGTATTTACCGTCCTG
AAATGTTTGACGGAATCGAAGCGGGCAGTGTGGCGAAACTCGCGCCCGTATTGCGTGGCG
AAATGCGGCAAAACCGCGTGAGCGGTCAGAAGCATACGGGCTTGTGGCTGGATGTCGGCA
CGGTATGCCGTCTGAAAGAGGCTCAAGCCCTTGCAGGGGCTTGGAAGTAAAAACCCGGTT
TCAGACGGTATGGCGGATTCGGTTTAACGTTTCAACGCCAGCACCAACACGCCCGCCGTT
ACCAGCCCCAAGCCTATCCATTCCTGCGTGTTCGGGCGTTCGTCCAAGAAAACCACCGCC
ATCAGCGCGACCAAGACCAGGCTGAATTTGTCGATGGGGGCGACTTGCGAGGCGTTGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 581>:

GNMHI03TRB gnm_581

CCCACAGGAAAAACGGTCAATGCTTTCAGCGGGATTTTTTTGGGGAAATTCGTCATGTCG
CTGTCGGATAAGGTTTTTTATTTCTGCTAAATACTGCGCCGCCTCCAACAATCCTTTCCT
CTCCCTCCTCCGGCTGGTGCGCCTTTGTGAATATGCTGTCTGAAACTCGGGGACTCAGAC
GGCATTTTGTTTGCCGCCATCAGTCGGCAAACTGTTTTTTCATCCTCTCTCGGCGTTCTT
GGGACTCAACAGATAAAGTGGCTGTCGGGCGTGCCAGCAGCCGCTTCAAACCGATAGGCT
CTCCCGTATCGGCACAGAATCCATAATCCCCTTCATCAATATTGCGGATGGTCGCCTGTA
TTTTACTGAGAAGTTTTCGTTCCCGATCGCGGGTACGGAGTTCCAATGCGTACTCTTCTT
CCTGTGTGGCACGGTCGGCAGGATCGGAGGCTGATTCGTGTTCTTGGAGATGCCCTGTCG

TAGCGGAAGCATTTTCGATGAGTTCGTCTTGCATTTTTACTAGCAATTCGCGGAAAAAAG
CTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 582>:

GNMHL46TF gnm_582

AAAGCTGGCTTGCCCGACACTCAGACGGTCTCCCCGCCGGCATTTCCACGCCGCAACCCT
ACGGGCGCAAAAGCCCGAATCAACGCCAAAATAACCGCCAGCGTAACCCGCGCCGGCGTA
TTGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 583>:

GNMHN01TF gnm_583

CAAAATACCCTTATAATGAGCTTTATGTAGCCAATCCTAAATCGGGGACGAGTAGTTTGG
TGCGAAAACAAAACGGGTAAACAACCGCCGCCTGCCGCCGTATATGCTGGCGCACGGAGT
CGGCGTGCAGCTGTCCCATACTTACCGCCCAAACCCGGGATGGCAATTTTCGGTCGCGCT
GGAACATTACCGCCAACGCTACCGCGAACAGGATAnGGCGGAATACAATAACGGCAGGCA
AGACGGGTTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 584>:

gnm_584

TAAATTTGTTGTTGTCCGATCCGGTTATTGTTTGTTCTGACTTGTATTTTTTCCGTGAGT
CTCGCCCGTAAGGCGGAAGTGGCGGGCAATGCGTGGCGGAATGTGGGTAAAGGCGGCATT
TTGATTTGTCGGAATGCTTGAGAACCCCTCTCTTTAAAACACCCTTGGATTCGGATTTCA
AGTGCAACACTAGTGTATTAGTGGTTGGAACAGATTCAAGAATAAAACACTTGGCGTTTC
GTAGCCAAGTGTTTTTCTTGGTCGGTGGTTCAACTCATCTTGAACCCTGCGTATCTCCCG
ATCACTGATGTTACGGAAATCGGTTTGTTTGGGGAAGTATTGCCGGATGAGTCCGTTGGT
GTTCTCATTCAGCCCTTTCTCCCAAGAATGGTAAGGACGACAAAAATAAGTCTCCGCTTT
CAATGCTTTGGTTATTTTGGTGTGTTGGTAGAACTCTTTGCCGTTATCCATGGTAATGGT
GTGCACCCTGTCTTTATGTGCCTTTAATGCCCTAACAGCTGCCCGGGCAGTGTCTTCGGC
TTTGAGGCTATCCAATTTGCAGATGATGGTGTAGCGGGTAACGCGTTCGACCAAGGTCAA
TAATGCGCTTTTCTGTCCTTTGCCGACAATGGTGTCGGCTTCCCAATCGCCGATACGGGA
TTTCTGGTCGACGATAGCGGGTCGGTTTTCTATGCCGACACGGTTGGGTACTTTGCCTCT
GGTCCATGTGCTGCCGTAGCGTTTGCGGTAGGGTTTGCTGCATATTCTGAGATGTTGCCA
CAACGTGCTGCCGTTGCTTTTGTCTTGGCGAAGGTAGCGGTAAATGGTGCTGTGGTGGAG
CGTGATCTGGTGGTGTTTGCACAGGTAGGCGCATACTTGTTCGGGACTGAGTTTGCGGCG
GATAAGGGGGTCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 585>:

GNMHT04TF gnm_585

TATTTCGGGCGTGATGGAAATCCAGTCGTCCCGATGGCATGAACACGCCTTTCGCCTTAC
GCGATTTGAGCAGGTCTTCGGTGGCGGCAGAGCCGATCAGGACGCGCCCTTTGCCCACGG
GCTGTTTGGTTGCCTTGCTGTACACGGTTACGGTGTCCATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 586>:

GNMHV42F gnm_586

GCCATTTTGTGGCATTGTTTTGCGTATACCGTGCAAGATAGCCATAGGGGATAACCATTT
TGGTGCCCTGAAAATCAAATGTAACCGTATGTTCAAATCCTGTCATTGGCTCGGGATTGT
TGAAACTGGTTTGTTCATTAAAGGGTCACATGAGGGCATAGTTAAAACACTCCCCATTAA
CCAAATTAAAAGTTGATAAATGGGAATAGCCTATGGGCCCCTAATTTCAAGCCTAGGAAT
TAGGTAAAGGATATATTCCTGGGAGATACCAACTCCTTAGGTAAAAATAATTTACCAACC
TTTGGCACCTAGGGATAAATTCCCATACCTAACTAAACCGGGGGGAAATATATTTATCCC
AGGTTGGAGGGGAACCTTTTTCCCCGGTTCCGGCAGGATAGGTACGGGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 587>:

GNMHY50TR gnm_587

CTGCCGAAGCCGTCCGCCTGAACCGCCTGACACACGGCGCGCTGGACGTAACCGTCGGCC
CCTTGGTCAACCTTTGGGGATTCGGCCCCGACAAATCCGTTACCCGTGAACCGTCGCCGG
AAACAGGAATTGGTCAATAGTCACTTGCGCGCCGTTGGCGAAGTCACCGAATTGAGCTTC
CCAAATGGTCACTTTGTCACGTGCGGAGCAAGCAAAGCCGTACTCGAACGCCATCACGGC
TTCTTCGTTCAAAATGGAGTCGATAACCAGGAACTCGCCCATGCCTTCGCCCATATGGCG
CAGAGGAACATAAGTATCGTCGTCCCAATTTTCGCGGTTTTGATCGTGCAATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 588>:

GNMHY77TR gnm_588

CAATGCATTGGGCGGCGGTGTGAATTACCAAACGCTGCAAGGCCGTGATTTGCTGTTGGA
CGACAGGCAATTCGGCGTGATGATGAAAAACGGTTACAGCACGCGTAACCGTGAATGGAC
AAATACTCTCGGTTTCGACATAAACATTCAATAATAAAACAAGATCACATAATAAAAAAA
ATAATGAAAATATGAAGGATAATAGGAGGGTTAAGTTATTTAATGGGACTTGTTCTCTAT
GAATCATAAGACACCAAATAATCCATAGTACGTTTAGCAnATAAAAACTACCGATGCCTA
ACCTCTTTTTCTCAGAACCTATTATCATTAGAATTCTAAGTGGAAAAATAGAATTAAAAA
ATTTTTTTCTTCGCTCTGTCGTTAATGTATCCTTAGTTTCCCTAAAAAAAATATAAACA
TATATATACTGCACAATATTGGTAATAAATAAATTAAAAGCGAnAGGTAATTAAATTGAT
AATTGTAAATTATATAATAAACAACATACGAAGAAAAAATATTATAGATGATTTGCTATA
CGAATAAAAAAATATCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 589>:

GNMHY94TR gnm_589

GCGTGTGGGACGGCAAAGCCTACGACGACAACAGCAGTTCCGCGACCGGCGGCAGGGTTC
AAAACATTTACGGCGCCGGCAGGCTGCTACGTTTTCAGCTACGGTTTCTTTTGCACGCAA
AGGTTTGATTGATTGGAAGAAAGGTCTCCCGATTGCCGCAGCATCGTTTGTAGGCGGCGT
GGCCGGTGCATTATCGGTCAGCTTGGTTTCCAAAGATATTCTGCTGGCGGTCGTGCCGGT
TTTGTTGATATTTGTCGCACTGTATTTTGTGTTTTCGCCCAAGCTCGACGGCAGTAAGGA
AGGCAAAGCCAGAATGTCTTTTTTTCTGTTCGGGCTGACGGTCGCACCGCTTTTGGGTTT
TTACGACGGTGTGTTCGGACCGGGTGTCGGCTCGTTTTTTCTGATTGCCTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 590>:

GNMIA39TR gnm_590

TACCTGCGCGCGTTTTCGCAGGCGGAAGGCAATGTGCGCGGCGGCGAGGTCATCGGTTTT
GTCGGTTCGACCGGGCGTTCGACCGGGCCGCACCTGCATTACGAGGCGCGCATCAACGGG
CAGCCCGTCAATCCTGTTTCGGTCGCATTGCCGACACCGGAATTGACGCAGGCGGACAAG
GCGGCGTTTGCCGCGCAGAAACAGAAGGCGGACGCGCTGCTTGCGCGCTTGCGCGGCATA
CCGGTTACCGTGTCGCAATCGGATTGAAGTTTGAACCGGCGACGAAAACAATGCCGTCTG
ACGACGTGTATGGCATAGCTGACACGCTGAGCCTAAGTGATACCGATACCGAGATTTTTA
TTTACATCTTTATAGGCGAGATCCACAGATTGGATACCCAAATTTTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 591>:

GNMIA50TF gnm_591

CCGCAGGTTCTGGCAAAAACCGAAAAACTTTCCAAGGCGGGCTCGTTGGGCAAATCGGAA
ATGGAACGGTATCAAAATTGGGCATACCGCCGCCAGCTGGCGGATGCTGCCGATGCCGCC
GCTTAGAAAACCTGCCTGAAGCGGATTCCCGACAGCCTCAAAAACGGGGAATTGAGCGTA
TCGGATGCCGAAAAGCACGAACGCTTGGGACTGAATGCCGACGCGGCCAAATGGGTCAAA
CAGCATTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 592>:

GNMIB26TR gnm_592

CTCGGTACCTTCGTAATATTATGAGCTATGAATTCGACCTCGGTACCCTGTGCACTTTCA
AAGTATACAACCAAATAAATTAATAATAAGGCACCAAATACAATAAACAACGCCGTAAGC
ATGCTCATAGAACCTTGGTTCGTCAGTGTAACCAGCTTTGCAATACCCGAAGGAATACCT
GAAGCAATACCTGCCGTAATGATTAAAGAAATACCGTTCCCGATACCCCTTTCAGTAATT
TGCTCCCCAAGCCACATAAGAAACATGGTTCCCGTTACCAAAGAAACTACCGTGGAAACA
TGAAACTCAAATGAACTTGTTACAACAATTCCTTGCTGAAATACGAAAGATGCAACACCT
AGACTTTGAAGAATTGCTAACAAAACAGTACCATACCTAGTATATTTCGTAATTACCTTT
CTACCAGCCTnCCCTTCTTTATTTAAAGCCTTCAATGATGGCAAAATTTCAGAAGCGAGC
TGTACAATAATAGAAGCTGAAATATATGGCATAATTCCTATTGCAAATATACTAAAGCGC
TCTAACGACCCACCGGAAAACATATTCAATATTCCCAGGATGCCGTTTCCAGCGCTTTCG
TATAATTTAGCTAAAGCAACAGCATCAACTCCAGGTACGGGTATATGGGCACCAATTCGA
AAAACAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 593>:

GNMIE10TR gnm_593

AAAAAGTGGTTTCAGACTAAGAATGACGCAATCGGCATTTAGGCCGTCTGAAATCAGAAG
TACCGTTTCCCAATATCGAAAATCCGCCATGCGGCTAAAAATACTTCCTTCATGGAGCAG
AAATGACTTTGTTGAGCTTATTTAATCCGTTGCAAACTGCCGGCATGGAACAAGAGTTTG
ATGCCATTAAAATCGGTATTGCCTCTCCCGATACCATCCGCTCATGGTCTTATGGCGAAG
TCAAAAGACCTGAATCCATCAACTACCGTACGTTCAAACCTGAGCGTGACAGTTTGATCT
GTGCCAAAATCTTTGGCCCGGTCAAAGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 594>:

GNMIF19TF gnm_594

ACGGCTTGTTCATGGTTCTGCCTTTCAATGATTGTTTTGAAAGCCTGATTTTGACACCAT
AACTTCATGCGCTCAATTCTTAAACAGAACCGCCCCGATTAATACGGGTACGGAAACGCC
GAGATAACAATAAGAATCCATCATTTCAAAACCTTTTTCAGCAGGGACACATAGTAAACG
GACGCGAGGATGCCGAATACTATCCAGCCTGTTTCAAGACCGCTTTGCACGTTGTCCTTC
GGACTGCATTCCGCCAATAAAAGCCTTAGCGGCTGACCGTCCGACATCTTCCACAGGCTG
CCGTTATATTCCGGCCTGACAATCTGTCCGTTTTCTTTGATTCTTGGTGACTACCAAGCT
GAAATACAGGTTTTCAGCCTGGTGCTTCTCAAGACATTTATTTCCGACTTGGTACAACAT
GCCGTCTTACTTCACCACTCTCTTAACGATGGGAACTACAAAAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 595>:

GNMIF67TR gnm_595

AACTTGTATACAAAACCTACAATATTGTCAATATCGGCAATTCCCCCATCAAAATCCGCC
AAATCAAAAATATAAAAAGGGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATC
CATAACTTGAATTCATTTAAATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCT
AAATCATCACTATCCTCTTTTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACG
CTCTTTTAGTTACCCGCTTTATATCAAAAATACCGTCTGAAAGACGAATATCGTTTCAGA
CGGCATTTTGACTGTTTAAAGCGGAGGAAGTTCTACAAACGGCAAGAAATGCTGAAATTT
CTGAAACATTTCAAGATGTATCTCTAACGCTTTTACTGCTTTTTCTTTTGAAATACGCAG
ATCATACACATCTATCCCCCTTAAAAACGCAATGTCGGTCAAGGTATTTTTTTTCGATTT
TGATAGTCTGCACATTGAAACAGAACCTACAGTATTGTCAATATCGGTAATTCCCCCATC
AAAATCCGCCAAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 596>:

GNMIG49TR gnm_596

GGTCTTCGCCCTGGTTAACCTCATTAAGAGTCTCnCAAAATGCTCCGGGCCTACCTAGTC
AATCTAGTCACTCTCCGAGCCTCCGCGCCTGCCAACCGTCGTGCAATCAGCAATACAAAT
ACTAAGCCCTCCTGGGCTGCTATCATTCTAGCATTCAAACTCGCTGCTTTCAGGGGTACA
TCCTTGTTAAAGGAGGTTATTAGTGTCAAGTTCAAATGGGTGTTCCTCGTCAGCGGGGCC
CTCCTCCGAAACAACTGGGCCGTAAACTTAAGGATTCAAGCCCTGGCCTATGGGTTCTTC
ATCAAAGTCAGGAGTGCCGTCAAAATGAGTACCTGGGCTACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 597>:

gnm_597

CTACTAACCACAATCCCATCCTTCCGTCTATTGGGGGTTCTATTCCAGGGTTATCTTCGA
TTTCTCAGCGTAACCGCGCTTTAGCCAGACGTGGTCCGAAACGACCAGACCAAGCGGCTC
CTCCGAAGTCGCTTCTCTTCCCTCGCTTCAGCGGGCCAAGCGTCCTAAACGGCCAGGGCA
CGGCCGTGGGCGACCGTGTAAACACTCCTACGGCTTAGCTGGGCGTCGTTATCGGCGACC
AACTCCTAACTACCTGCGTCAGTAAAGTTGCAGGCGGCTTTAGTATCTTCTGCATAGTCG
CTTTTAACCTAATAAGATATCTCTTCCGTACCCGCCTCATCGTCAcATCCTGGGCCCGGG
CAATGCTGTCCTCGAACGCACTCTCGTCTATAAAAGTACATCCTTGGTCCTAGTCCGCGG

TAATATGGTCAGCCGTACTTTGGGTAGATGGGGTATCATAGTCTTTCCGGGCGGGCTTCT
CTTCCAACCTAGAGGGGTATAACGCCTCATCATCCTAAGTACCGGAAGTCCTACGGCTAC
GGGCATCCTCCTCTACAACCGCTGCAGCATCCGGCTTCTGTTCTATAGAGTAAATGGTAG
GGTCGTTAGCGGTACCTTCCCTGGCACCCACAGCTTCTTCCGCGTCAACCGAAGCTTGGG
CTTCATTAAGATTATACCTCTCCTGGTGGGCGTCCTGCTATTCAAAGACTGTACGGTCAT
TAAAGACCCCCTGGTTCTCTGCTTGGGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 598>:

GNMIG51TR gnm_598

TCCTGTCCTATCCGTACCGGCACTTGCTTCTTTAACCTCTCCGAGTCAAACACTCCTGGG
CTTTCATCCGCAGCGGCTTCGGCAGGGGTTTCGACGGCTGCTGCTTCGGCATCCTCCTAG
GCATCCATCCACACTTGATTTCGTTCTTCAGGGCTCTCCTCCTAGGTACCTGCTTCCGAA
GCGGGGCTCTCCTCCTCCCTACAAACCCTGGTAAGCTCTTTAACGTCCCAACCCACCTCC
GAAGTTGCTTCTTCACTCCGCTAGGGCTTAGAGGCTTCTTCAACCTCGGCCTCAGCTTTA
AAGTCCTCGGAAGTTCTTTCAAATCTCTCTTCTTCGTAACTACCAGGTTCAGCTCCGTCG
GGGCAAACTCTCGGGGTACCCAAAAGCTCGGTAAATTTAAACTTGCTTTCTTCCCTAAGA
TCCTAGTCTTCTGGGCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 599>:

GNMIG53TR gnm_599

AAGCACGGGGCTTGCCGGTTAAAACGGTGTAAGGTTAGGAAGAGCCGGGGCGTCGGTCCT
AAAAGCGCGCTGCGCAGGCAGATCAAAATCAACGGGTACTCAACTGAAAAGCCTGAAAGG
TCTCTATAGTGAAGATAGTAGACTGATCAGAATAAGTTCGAGAAAAAACTGCGTACCGGG
TATGGCGGTATCCAGAAGACCAAAGAAACGACTCCGGGCACGAGGTCCGATGCGAATTCG
AGAAATTGGATTAGGGTCTGGTAAAACATTCAAGATCCTCATGGGATTCCTACTATTCTC
ATTCTCGGGCTTGGGCTCGGCGTTCTTAAAAGAATGGGTAGTGCTGGTGATGGTCTTAGT
AAATAGGGTGAAAGCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 600>:

gnm_600

TCATTGCTACCTAGCTAACTGGCCTATGCCTTCGTCGGGGATAATCGTCGCATGCCcAAA
ATTTGCCTCGGATTTAATGGAAGTCTTGGCTACTATAGTTTTTGGGTCTTACTGCCTCGA
AGACTCAACACCTTTCTATTCAGTCTTTGGTTTAATACGGCTCTACTTGCAAGCCTCAAG
CCTCTTGCAGCTCCGAGGGGTGTTGGATCTAGTGCGCTCCGAGGGTATATTCTAGAGCCG
CTATGTGTACGATAAGTGCTGTGCAGCTTCTAGACGGAACTTACTTTTCATATTTCTTAA
TATTTCTGCATCTCTTTGCATCCCTGGCGTGCTGTTTCCTAGTTCTGGATACATAACTGC
GCATTCGTGTTCCCACTGCTAGCGCGTACACCGGGGTATTCGTAGTATTCAAATCTCTCA
CATCAAACCCTTGTCGCAGATCTTGAGGGGGAGACCGGAAGCGTAGCAGAAGAAGCCGGG
TGGACATCGTACCGCCTATGGGGTCCCCAAAGCGCTCTCCAATTTTGAGGGCGGGAGGGG
GTGAAAGATAGGTAAaGAGCGAGTTCTGTAGCACATAAGAATTTGcAGAAAGCTgGTAAG
AAGAGGCAAAAACCAACACGAGCACGAGGTAATAGGGTTCGCGTCTTTGGAGGTTTGGGG
GGCTCCTAGGGGCTTGGTTGCGGGGGCTGTATTTACAAATCTGCCGCAAACGAAAACAGC
TGCAACAGTACGGCCCGCTATCACGCCCGGATAGTCAATGCCAGTGTAATACTCCGAACA
GTTGGCACACGGGGTCTTTTCAACAATCGGGGTTAAGCAGCACTATGGGGAAACGGTGCT
GAGCGCCTCTCCGAGGAGTTTCGAGGCATCTTCCCTAACACTAATGTCCGTCTTCTAGAT
ATGAGGTGTACAAGCATGGCCGGCACGATGTATTACGTATACAAAACTAGTGGATCCAGC

CTAGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 601>:

GNMIG55TR gnm_601

TCGTTACTAACTTGGTCGTCGCTTACTCCTCTACGGGGGTTACTCAAAAAGTTAAAGCTA
CTCTCTATAGCTTCTGCGGCGTCCCTACTACCCGGGTCCAGATCGTTCTTAAAGTCTTCT
CGATTACGTACAGGGTCTTCCTACAGCCCTCCGAGGTTTGCTTCTTTAGGGCGAATTCCG
GTGCTTTTCATATTAGCATCAATAACCTCTACGGCGCCTGCAAAGGCGCCAGGGTCCGCC
CAAATCTCTTTCGGTTCTTCGTCTCTAGTTCTCATAACCGCAGCTTTCAAGTCAACTCCG
GCAGCTATAGGGTTACAGCTAAATTCCCTGCGGGGCTTGCTCTAAGCACTCTCTGCGTCC
AATACTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 602>:

GNMIG56TR gnm_602

GGTGCGTTCCATGGTAAAACTTCATAGAATCTAGAGGGGTTAAATGCAAGGGGGTTACTC
GGGTGGGAAGATCTGGCCGCGTCCCCCTAGGGGTTTTGGGGGGCGTCCGGGTTAGCTCCT
CCAACGTCAAGCTCGGTCCTTTGCGAACTGCTCCTCCCTGCGAGATTCCTCTAATTCCTA
CCCGACCGCTGGCCAAACCGAGCAGGGTGCTGGGCCTGGTCTCGTCTCGGGCGCTTAGTT
AGGTCGGGACCGTTGTACAATTGGCCCAATATCTCCACACACTTACAAACTGCAGCACGA
ACCTAGACGCGGGTAGCCCGGTTTGAATCGAACGGAGGGGGCTGTCCTAGGGGCGCTTCT
GGTGCTCCTAACTGTGGTGATCCAGGGGCTGGCCGACCGCCGCCTAAGCCTCTGCACCGG
TAACAGCTGCTGTGGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 603>:

GNMIG57TR gnm_603

GCGGCGGCTTCGATAATATTACTCAATTCTTGGTCAGAAGCCGGGGCTTTCGAGACCGCG
GCGGCTTCGCTACGGCTACGGCCTGCTTCTTGGGGGGCAGTACCTTCTTTCGCTTGCAAA
GCGTCGGATCCAACCACGACCTAAGAGTCCAGCGATTGGGTCGAGTCCTCCGAAACGTCT
TCAATCCAAACCATCTCCCGTTCGGTAGCCTTGGATTTCTAGTTACTACGTTTTACTTCA
ATGGCTGCGTTATCTTCATGCTATTCAGCGTTGCACTTCGTCGTACTAATCGCCGATCTA
CCGGCGTCGGCTGTAGTTATCCCGAGGGTGCTACTACTACACTTCTTCGCTTCCGGATCA
GCCCGCTCCAAAACCAGCGGTTCCTAAGGGCAAGTCCCGGGCGATCCCGCAAATCCATCT
GGCTGGTAGACCCGCTTCATACCTATTATAGCCTACGAAGGTTCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 604>:

GNMIG58TR gnm_604

GTCCGATTTCCCTGGGGGGCCGGGGGCTATTGCTCCAGGTCAGGATCGTACCCGAAAGTC
GCTTGGCGCTTAATTAGGGCCTCGGCCGAACGGGGGGGGTGGTCCTAGTAAAGATGGTCA
GAAAGGTTCTATTCAGCAGGGGCTCGGGGGGTGTCCCCGTCCGGATCTTCCTCACGGGTC
TTAGAAATGCTTTGGTCCTAGTCATCGCGAGTATGGGTATATTTAACGGCTCCCTCAATA
GAGTTAGTATTAGGGGCTGGGTCGGTACCTCTAATAAATTCGCAGTCATCAATATCTACC
GTACGGCCGTCTTCAGCCTCTCCGCAAGTACTCTCCTCCTGATCCAACACGTTATCTTCA
TCCATACATTGAAAAGTATGGTCGTCTGCTTCATTGCGGTCTCCAGGGGCCTAATCCTGG

TGGTCAGCGACGGTCCTAGTCGTTACTTTCCGGCGCTCTTCTAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 605>:

GNMIG59TR gnm_605

GTTAGTTCGGGCTTCAGGGTCCCAAGGGTTAAAAGTGCGGCCTCGGCTCTTACGGGTAAT
GCTAAAGCTCTGCTCATTCGAGTCCGGACTTCCTGCGGGGTCCTAAGCTTCGGCAGCTGC
TTCAGAAGGGTCCTCCCCAGGGGGGGAGGCACGGGCCTCGAGGCGGTAAATGCTCTTAAT
ACCCGCTCCTCTATCCTGGTCACCGTCCGAGGCTTCTTTCGCGTGGTGGTTATCATTCGT
GTGAGAGCCCAAATCAATACATTCTTTCGCGTGGTAAGCCGTACAATATCGTTCTCAGAT
ACTTTGGTCATTAAGATGGGGATTCGCTTCGTCCCGACGGGTAATATGGCTACCATGGCG
CTCATTCGATTCCGTGCAGATACCGTCCTCCTAAGTCCGGTGGTGATTCTTCTAGTCCGG
GCTCTTAATACCAAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 606>:

GNMIG61TR gnm_606

CGGTGGCTAATAGACCACCGACGCCTCCTCCACCGACGTGAAAACGGTCACCCTCATGGT
GGTGGTCGTTAATCTCGGCTCGTTCATGCTCTTCTTCCTCCTAACCGGCGACTTCTTGGT
GGTCATCAGCAGGGGTCCTTAGACTAGGTTCCCCCGCGTCGACACTTACAACGTAGTCCT
CACCAACACCTCGGCGGTCCTGGGCCGCAGCTTCCCGGTCGGCTTCCGGGGCCTCCAGGG
GGGCTTGAGTAGCTTCGGCAGCAACCGCCATGGCTTAATCGGCCCCAGCTTCTACAGCAA
CATCTCTAACCCGGGAGTGAGCTTGGCCTCCGCCCCAAGTAGCCTATCATACCTGGCCCG
AAGGGGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 607>:

GNMIG62TR gnm_607

CGAAGGCTTGGGCCGATCAACATAAAACATCGAGGAAGACAATTGAGCCTGCTGATCCTC
GGCATACGGTCAGGAGCTCTTGGAGCGTTCAGCATACTACAGGTTTTCAACGTAAACAAG
GCAGCCAAACTTAAAGCGAGACCTGCCTATCGTTCGGGGCCAAGGCCTAGAAACAACAAT
GCAAGAAAGGAACGGTGGGCCAGGCCAAGAAGGGGCGGGGAAAGACGGCTATAGGGCAGG
CCAATCCTCCACAGGCGCGCCGTAAGAAACCGCAGCAGGGTACAAAGCCCCTGCAGGGGG
TTTGGAGGTCTAAGGTAAAAGATAAACAACAAAGCCAGCTTAAAAACTGCCAACACAGGG
GAGTCGGCAAACGTCAGCTTAAGTTTCATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 608>:

GNMIG63TR gnm_608

GTTTTTCGTCTTGGCTCTTCGAACATTCACGCTAACTTGTAGTTTATTCTCTCTGAGGAC
CAAAAAAGCTCAGCGTCAACTTTGCGGTCCATGGTTTGGTTGTCATTGTAGGGATTAACT
TCTTCAAAGTTATTCTTAAAAGGGTAATTTCTCTCAAAGTTACTGGGTTATCTGCGGCGT
TAGTAAAATTCCTCCGGCGTTTCAACATGCTCTTGAGGCGTTCTAAGTCCTCTATTATAA
GATTAAGTGCCCTAAACACTACAGCAGCCAGCGCCAGCAAAGTCGTCAAAAACTTAAAAG
TCTTAAAGTCTCTCCTCTAACTTCCGGGGCGAGCCCTCTCCTCGCCTCTCCTTTGAAATT
TAAACATCGCCACATCCGGGTTCTAAGTAGTAAACTTCGTAACCCTGGCCCGAGCCAAAT
TGCTCCTATCGGTCCGAGCTGTCAACAACGAGCCTCCAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 609>:

GNMIG64TR gnm_609

TAGGGAAATACGAAAATTCCTTCCGGTGAAAAATCCGGGGCTTGCAGGGGCTTGAAAGCT
TCTTCAGCCTCCTCCTAAGCTCGGTTCTTTTGGTCTCTCTTTAAGTTCTTGCTTCTCTTG
TTATTAGTATCTCTATCATCCCGGTCCGGTTTCAACTCTCTAATATCATATCTTTGGGCT
TGGTCACGGTGGGGGTTATGGTTCTTAATATCGTGGGTCAACTGGTTGCTTAGGCTGCAT
TGGGGGCCAGCTCTATCGGAAGTAGTCGGGCTCCAGATCCTGCTTAAGTCCTCTAAATCC
GCCTCACCGTGGCCGGTACTCGGGCTACGCTTCTTAAAATGGCTACTCTCCAAAGAAGCT
TCGTCTTCCGCGGCGCGGGCGTTAGATATAAAAGAGCCTTCTGCCTGGTCTTCTTCAGCA
CTTACTTCTCGGCCGGTACTGCGGTTAATATAGACTCCGTCTTCATGGGCCTCTCCTACA
AAGTTATCTTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 610>:

GNMIG65TR gnm_610

GTCCATCCCAAAAGGTGGTCTTGTTCTTTCTTACTAGTAGAGTCCGTACATTCGAGGGCA
GCCTGGTCGACCTAGAATTGAGCTTGGCCTGCTTCCATCAATATCTCTGTCAGCGTCCCA
GCAGCTCTTTGGGTACTTTCAAAAACAGCTTCAGAGGCCTCCTCCGCCGCGCTCCTAGTA
GATCTATAGACCGCGGCCTCTGCAACGGCTCTCATCGCTTCCGTACTAATAAGGTCTTTA
TAGTCTTCAGCGTGGGCCGCTGCTTCTGCCAACACTTCTACCTAATCTTTAGTTCGTTCG
TCCGAAGCTGGGTCGTTTTCACTAAATTCCTAGTTCTTACTCTTGCTGTTCTTCTAGTCA
TCTATACCGATCATATCTCTTTTAGATGGTGCACTGCTGGCTCTCGTTAAGCGGGTCCTC
CTCTCGAAGGGGTAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 611>:

GNMIG66TR gnm_611

AAGTTAAAAGTGGTAATAATTGGCCGGTGCTTAAAAGAGTTAATACGGGAAGTTCTAATC
TATCCATATTCGTTCTTGTAGTAAATACTCCACTGTTCCAAGCCAAACTTACATCGGTTG
TACCGGTTCTTATATTTTGGGTATCTACAGAGCTTAAGCTTGTGGTAGCCCAACCACTCC
CTAAAATTAGTGGTTCCTACTCATGGGGAAGCCGTCCGAAAATTGGCGTTCTTCTCGCCT
GCATTACTAAAAACATTATGGCGCCTCCTCCGGTGGTTAATATGGGTAATAAATGCGGCC
TCCTGGCCATAGGTAGATGGGTTCTACCAGCAAGTACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 612>:

GNMIG67TR gnm_612

TTCATACGCAGATTCGCGGTCCTAAATGTCGCGGCTCTACTCGCCAAAGCGGTCTGCCAG
GCTAATACCCTGGGACAACCCAGATACTTGATCGGTAACTAACGATTCTTTAAGCTACCC
CTAGGCTTGCTGGGCGGAATCTTGCTAGTCATCTAACTCCGGGGCAAATTTACGGCTCTC
CTATCCAGCCTCCTAATCGAGTTATTTCCCTTGCTATTAAGTATGATGATAGTAGAGGCA
CATAGTCGCGTAGTTGGGCTGGGGAATACGAGTGTAAAAGAAAAATCAGATGGGGGCGGG
TGGGGGGAGGGGCAAGCATGCTCGGGGCAGCCGGGGAACAAAACCTTCGTGCAAACGTTA
GAGTGCTTCAGGTAGGTCAAGTAAAGCGGGTACATCCTTGTAAGTCGGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 613>:

gnm_613

AATGTAAAAAATTCCAGGTTTCTGCAAAATACCAAGTTCCACGTGTACCCGGCACAAAAA
TTCGGGGGTTTCAGAACGGGTTCGATTCATACATTGACAGGTTTCTTGCTCTCCCAAGCA
TCAGAGGGTACGGGGCGCGGGGGCAGGGGGGGCGGGGGCTCCCAAGCATCAGAAAGCATC
AGAGAACGAGGGGGAGGGGAAGTTCTTAGAGGAGACGCCAGGAATAAAAATTACGATCCT
CGGCTTGTCTTGGACTGTAAACACAATCAGGTGTGAACCGCTGCAACTATTAACGCAAGT
CCGGTTCGATGAGGGCTATGCGTGCTCCTGGTCGTCTTGGCGTTGCAGGGGGCGGAAGTT
ATGAGAATCTATTTCCTTAAATACTAGAAACCTATCCCTACTTTCAGGGCCAGGCATTGA
GGGTTTTCATATTTGTCTTCnTACTGTCGGTCTTAACCTAACAGATCTTGGCCGATTTGG
GCTTGCTCTCGTCGAACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 614>:

gnm_614

AAAATGGGCAGTGTGGGCTTCGGGATTATCAGCCTAGTCGTGGGGAAGGTCCTACGATTG
GCCAAATCCTTGGCGCGCTGCAGTCGAGGGCAAAACCGCTACTACTAGGGTCCTACCCCG
TACCGTCGGCATCCTCATCATGGTCAGCGTCGCCCTGGGGGTAAGGGCATCTAAGCTCAC
CTCCTTCAGCTCCTTCAAATTCGGAAGTCTGATGGGAAGCTGTAGCGAGAGATGTTAACT
GCGCAAATCAAAGGGTAAGATTGCGAGGCGAGGTGCAAAGAAACGGATAGGTTATGAGGA
TAGTGAATGATGGCTTCTGGAGGGCAGAGACAGCAAGGGGATGCGGGCTATACAGGGTTA
AAATGGGGATTAGTAAGAGGGCAAGGGAAAAGGGGAAGCAGCAGGGGCAGCAGGCTTAAT
TGCTGGCGCTCGAACGACTAAAGAGTTAAGAGGGGTAGGATTGGGGGCGTAAAGAACGGG
CACGGGAACATGGCTGCGAGAACATACAGAACTCGCCAGCGGGGGGCATGGAAGAAGAGG
GTGCGCCAGAATGGGCTGCGGGGTTGACGGCGTGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 615>:

GNMIG70TR gnm_615

GTCCGATTTTCCCCCAAAACGACGGCCTCAGGGTCTACCTGGTCGTTAACGTGGGCCTCA
CGAGTAGTCTCTTTTGCGGCTTCACTCACCTGGTCAGCAGCGTCTCCTCTCCTAGACGGG
TCAGTACCTCCGTTAGACTCCTGGTGATGGTCGTCACAGATCTGGCTCATCGCTTCAGCA
CCAGCCTGGCCCTAAGGGTCGTCGCGGTCCTTGCCTGCAATAAAGTTAGTCTTATTTAAG
TCCTACCGCGTCGCTTCGTCCTCAGCATTACCAGGGTACATCCTTTTCTTATTAGCGTCA
GCTTCATTATCTTCAATATCTCCTCGGGCCTCCTCCTCATCAACCTCGGCTTTCCATTCC
GCAGGGGAGTCATGGCCCCCAGCCGGGTTCGCTTCGACCTCACCCTCCTAATTCTTGCTC
TCTTCTTCATCCGCAACATGGGCCGGATCTTCCTCATCGAGCTCCTCCTAACGATCAGCG
TCGGCTCGGTCTTGGGGCCGCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 616>:

GNMIG71TR gnm_616

CCTGAAAGATGTAGTAGTCATTCAGACGCAATTACGATTCGCACCCAAACCTCAAAACAA
TTTTCCCACCCCACGCAAATACAATTGCAAATTGCAGCTAGATAAATACGCCCACTCTTT
GACGCCGCGCATGCTCGATTGGGGCGAGAAGCCCGTAATCATGGATAGGTACGACTCACT

GGAATTCAAGACCCCACCTCGACCCAAATTCACGTGGAAGACCCTCAGCACGGCTGCCCG
CGACATTTCAAATTCACGCAGTGAGTTAGCCTTACCGGCAACCGCTTCGAATACCGATGC
CACCATTCAATTTATCTAGCGGCTAAAAGCTCCCCAGCACTGCGCCAGACCCCGCAAACC
TGAAATAAATGTCCACAGACTGCCGGTGTTTTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 617>:

GNMIG73TR gnm_617

GGGCGCTCCAGGTAAAAGCAAATTTCCGGGGGGTCCATAGAGGGGGTGCATTCGAGGAAC
TAGGCTTGAGTTTCTGGGCGCCGAGACGCCAGGAATAAAAAGTACCATAACCTCATCAAC
TTCTACATACGATCCTAACCTCACCTAATCTGCGATGCCGGGGGCGGAAGTTATGAGAGA
TCCTACCCACCTCCCTGCCGGGCGGGCCTGCCTCCTCCTCAGCGCTCCCGGCGCCTGCTG
CTCTCTTTGCATGCTTAAATGCTTTTAATACTCGGAGCTCCTGGGCGGGAGGATATGCGG
GGGGCTTCTACGAGGCCGCGGTCCCTCCTAGCAGGTCAGCGAGGCCGAGTTTCGTTGTCG
TAAGTGCAGCAGCGGCCTCCGCGGTCCTCCTACTTGCGGGCTTCCCTACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 618>:

GNMIG74TF gnm_618

GGCTTGGGCTGATAGAGGGTGTGCAATGCGCCGAGTGCTGCATAACAGGCTGGAATGCTG
TTGACAATGACGCGGAAACCGTAAATATCCATAACCTCGGCAAAGCGCAGCTTTTTCGCC
ATCATTTTCTGATGGATGCCGTACAGGTTTTTTTCCCTGCCTTTGATTTTGGCCTCTATA
TTCGCGCCTACCAGCCGCTGGCCGAATGCGCGCAAGACTTTGCCGACAACGTACTGCCGG
TTCTTCCGGCTCTTGTACATCGCTCTTTTTAAAGTCTCGTAACGGATGGGATGCAAGTTA
TGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 619>:

GNMIG75TR gnm_619

TCCCTGGGCCTATCGTACCTAGGCGAGGCCTCCGCTGCAGGGGGTGCGGCAAACAGAAAA
AATCTCTTAATCTTGCATTTTGGGTTTGCGGTACATCCTAGAGCTTCGTGCAACTGGGGG
CCACTAAATTCTAAGCATTCGTTTTTAGAGGTTCTCTCCTTTTCGTAGCCTACATAGGCT
TCTTGGTTCTTGCATTCAACACCAAAACTAATCTTGCTGTCAGTTTCTTCGACCTCCTAG
TAGTTGTGGTTCTTCTAATGGTTAAAATAGTCAATAATGTAAAATATGTATTCTTCAAAG
TAAACTTTGCTCTATATTTCAATGTAGGAGTCTTCGTCAGTATCAAACTCCTACCCGCTA
ATCGGGTAGTCAAACTGGTATTTCTTGCTTTCTAAGCACGATCTGTCCTCACAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 620>:

GNMIG76TR gnm_620

AAACTACTTAATTAGCAAAGTAGTCTGTACCCTCAACCTGATATTACTAACTAAAATGCG
TACTATCTACGTCAGGGCTGCAAAACTATGATTCTTCTGATTTTGCGAAAACACCGAGAA
AAGTTCTGGGTATTTGTACTTTCTCTTTGATCTCCCTGGGGGGCGTACGGGTTCATGGGC
TCCCACGCAGGCTTTCTTTACGTCTCTTAACTTGCAGGGGCAGGGGTTAATGTTCTTATA
GACTTATTAAATGTACTCCTCGCGGTTAATACTCGCCTTCGTGGCTTCGTGGGTCCTCCA
GGTCCCTCGATTCCTCTCATTAGTAAGCTACTACCTCCCCGTCCTAGCATGCTTGGGGTC
ATAATTGGAAGGGTTCGACTTCAACCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 621>:

GNMIG78TR gnm_621

GTCCGATTCCAAAGGGATTCTATCTTGCTTAGAATCCGCTCCGTCGCGATATTCATCAAC
TTAGCTTTCTATACCACTGCTGTGAGATACTTGAGTTTCGTCCTACTCCTCTATGCTTGG
AGGGTTATCCTCACTCGTTACATTTCGCTTCCAAGAGCAAAGTATCCCTAAGTTGCTTA
CTAGGCAGGGGGTTCACCTCCTACCTAAAAGGATCAGCAAAACGGGTAACTGCGAGTACC
CGAAAAATCAAAGTTCTTTTCGTACCCGGGGAATTCTTCCTAATCATTTTAATCCTACCT
GCATTCTCGATTAAGGTCTCTGGGGGTTCTGTAACTTGGGCCAAGATCCTATCTGGGAGA
TCCTCCGAGGTCATGAGCGTTCTAATCCATCCTCACTCTACCTCAAAGCCTACGGGACAA
TTTCAAAATTTCAGGATTTGGAGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 622>:

GNMIG79TR gnm_622

TTTCTTGCGTTTGTCGTCGGCTTCTTCTTGCTATTAGTCGTCAACTTTGTAATTGTAATT
GTCCTGATGCCAGATGATGCATTCTTTGGGGTCGTGCTTAATTTAATGATATTCTTATTA
AAACTTCTCGTTCTTACTCTAGTCTTCCTATTCGATGTCCTCGAAGTCGTCCTGTCTGTC
GTTTTGATGGTATTTTCGTGCGTCAAATTAAATGTGCCAGGCGTAGTCTTACGATTATTT
GTGGGGGTAGCATTTCTATTGATAAAGATACGGGTGTTATTGGTGGTAGGATTAGGTAAC
TTTGCATTACTTGTGTTTGTCTACCGGGCCATCGAGATCTTCATAGCTTTCGATCTAGTA
GTCATATTAGGAGTCCTCTAGTTTGGCTTGCCCTCCTACGTACTGATTGCGCCTTACATG
CCAAAGATTGTATCTGTCAATCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 623>:

GNMIG80TR gnm_623

GGGTCTTAGTTCGGGGTTATTAACGTGGTCCCAGTCCTCATTAAAACGGGCTCCAGCCCT
ACTATCTTTGCTACGATCGTCGGGGTAGTCATTATAAAAAGTGGCGTCCGAGCCGTCCCT
ACCTGCGTCAACTCCTCTACAGACTCTACTATTATGGTATACCTCATAGTCCTCTCCAGC
TGCATTAATGTCAACGTTAGAAGTCTATTCATGGCCGGCGTGGTCGACCATAGGCTTCTG
GGCATGGCCCTCTCGGTGGTTGTAGTCTCCCGGGCGACTCTGGTCGAAATTATGGCCGCT
CCTAAAGTCGTGCTTACGGTTCTTAAGGTCGTTCTCGTTAAAGTAGTCATTCTGCTTAAT
AAGGTCGTGGGCGTTAGTCATGTCAGTACTCGGGTCTCTATTCTCGTCCAGATGGTTACT
AAGATGGTCTTCGTCGTGGTTCCGGGCATTACAAGTTACATCAGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 624>:

GNMIG81TR gnm_624

ATCCACCTCCCTCACTTCTGCCTCAGCCGGGGCCTAAATGTCACTCTCGTCCCTCAGGGT
AGCTCCATCTACTTCGCATGTTCAATTTTCCCCATCTGCCTTCCTCTAGGCCGTTTCGCG
AGCTTTAAATTCACGGCCCCGTCTTGAACTCCATAAAAATTCCTTTTAAACCGGCGTTC
CCTTCCTCCTGAGCCGGGGGATCTTCGTCATCTCGGTGGGTGCGAGCCAGGGCCCCAGCG
ATTAAATACCCGGAGACCTGGGTCTATTCAGGGGAGCGGTCTTGACAGGCCGGGCTCGTA
GTCTTTCATTGATGCTAATCCCAGAAATTGGCCGTACGGGCTTCGTCCGCGACACCAATA
CCTCGGCTAGCACCAGCGGAAGCAACATAGCGGCATTGGCGCTCATCCnCCACATAGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 625>:

GNMIG83TR gnm_625

CCTCCTCTCCTCGGCGGGGCGTACTTACTTTATGGGCGTGAGGCTTAGGAACAAAGGCCA
ACAACACTGGCTTCGTGTGGGCGGGCATTCCACTACGAATCAGAGGAGGATCATTCACCT
CCCCCAATCGAGTCGGCTATACCTCTCGAACCGAGGCCAACACCTCCACTGGAGTACCTA
GGGCCTAAAGCAACAATAAAATCACTGCCACCCGCTCGGTAAATGTCCCTGCAGGGGGAT
CCGGCTCTTCGATTGCTGCTTCAAATGCAGGCGGGTCGGCTCTTCGATGCTATTCAAAAG
CTTGGGCAGCGGCCAACACAAGGATATCTAGATGGGCATTCACGTCTGTAAATCTCCCCA
TCGGCAGCTCAGGAGTCGGCTTCAATTCGGGTAACACTTCCCTAGGCGGATTCAATTTGG
CGAGCATCAATTCGGGGGTCGCAGGCGTTTCAACCCTAGGTAGGGCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 626>:

GNMIG85TR gnm_626

CTGGGCAGGTGCAAAAGATCATGCTATCCTCGGCCCAACTGCCAGCGGCAATACTTTCAA
TAGACATACGCTTAACATCATTAGGAAACTTCAGCTTCTTAAGATTATTTAACTTGCTGC
TAATTAGATCCGTACTACGCTCTTTCGTACGTTCCTAATAAGCTTCATTACTCGAGAACG
TACACTTAAATTTGCAATAGAAATCATCCATACTATAAATCTTTCTCTTGGCTTTCTTGG
GGGCGTCTTCATTATAAGATGCCAAATAAGTCCTAATACCCCAGATAGATACCTCCGAAA
ATGTAACTTTAAATTACTCACAAAAAATCTTAAAACAGGCCTCGGCACTCGAGTTTAACA
TACTGGCAAATCCTGCGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 627>:

GNMIG86TR gnm_627

AACAGAGAGGGTTACACACATCCTGGCTAAGTATACACCTAGGTCGGTTCGGGATAAGAG
CTCAGCATCGATGATTGCCGCTAAGAGGATGACTTAAAGGATTAAAGCTGAAGAAGCTAT
GAGAATTACTGACGGACGAAGAGGTAGGATCGGGTCACAGAGTGGGTGTAGGTGGGCTAC
AAATGAAAGGACTAATTAGAGGGTTAAAGGTGCTGAATCTCCAGCACTCGCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 628>:

GNMIG87TR gnm_628

TCTTCTGGGTCTCCGAGGCCAACCGAAAGGTCAGACCCGCCTGCTTGGGCGTTCTCGAGG
TTCCAAGCCGCCATATGGCCATCCCAACCCGGATTCGGGTCTCTCCCCTAATTGGCAGAT
TCTTGGTCCCTACTTTCCGTACCCTCAGGGTCGTAAACTTGGGCATATGGCTCCGAAGTA
CTGCGGTGGGGGTATGGGGCGGCAGCAGATCTACCTGCGAGCTCGGGGTTACTTACTTGG
GCCTCGGGGTCTCTATTACGATCTTATCCGTGGGTAAAAGAGTCATTGTCATTAGGGGCT
CTCGCCATAAATTCCTTACCAACCTAAGCAGAATGAATCTTAATATTCTCTTCGAATTGC
TTATCTCTCCGTGCACTACTTCGGGGGGAAGCGTGGGGGTACAAGAGGTCGCGGTTACTC
TCTGGGTCCGTCGAGAATCCAGGAAGTTCTCTCCAGACTTTAGGnGCGTTAGAAGTGTAG
TCTATCTCGTCAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 629>:

gnm_629

GGGTCTTCGTCCGTAATATAGGCTTCCGTCCCGGCCGTCCCTCTCAATACTAAAGTCTCT
TCAGGGGCTTTCTGGGCACGGTCCCTACCGGGGTTACGCTCGTAAACGTTATCTCCGAGG
GCAACAACTTCCTGGTCTTGGTCGCGGTCATCGGGGTCAGGGGCCCTGGCATCCAAATCA
ACGCTGCTTTGGTCATAGCTATCGTCCTAGACTTCAGCGAGGTCCCTCTCACTCCTAATA
AAAGCCTGGGGGTGCTCCAGCGCTTCGTGCAAACCGGCAAGGGCTTCTTCAACACCGGCA
AAACAGACAAAAATCTCGGGGCTCAATTCGGCCGTACTCTCAGAGGCGTCCTCCGTACAG
GTTACTGCGAGGTCTCCGGCGACAACCTCCGTACTCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 630>:

GNMIG90TR gnm_630

TGGGTTTCAGATCTGGCTCTTCGACTGGATCTTGGTCGGCTGCCTAAACTTCTGCGGCAC
CTCTATCTTTTACGGGGGAGTTAACTTGGGCACTACCGTGGCCCTAGTCATCCGGGGCCG
CAGCAGTCTCTTCGGCCGTCTCTTCAGATTCCTACACCTCCAATTTCTCTTGGGGGCGAT
CCAAATCATGGGAATTAAACTCCCAGTCATAAGAAAGTGCTTGGCCGCCGAAACCAGGGC
CTGCGTCCAAGACCTCGGCGTTATTGGCAGCGTCATACACGGGGCATTTAGCTTCTCTAC
TCGTACCAAGGCCCATCGCTTCGGCTTCGTCTTCAAAGTCAGCCACCCTGTGGTGGGGAA
CACGGTCTCTAGAGTCCGGCTCCGCTGGGTCGTGGGGGCGGCTACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 631>:

GNMIG91TR gnm_631

TGATCGGATTCTGTACCGCTTGTGAGTACCTCCAAGGCCCTGGCCGTCAATGTGGTAAAA
AAGATCAGCGTTCGAGCTCTTGCGGTTATCCATCTCCTCCTACTCGACCGTCTCCTCCTC
CTTTGGTGGATTAACTTAGGTGTCTTTAATTCCTCCCTACTCGCCTCCCATAAAGTTCTA
GTATTCAATAACCTCAACGTAGGATTCTTAAAGATCTTCATTTTCCTAAGCTTTAATCTA
ATGGCCAAATTGGCCGGCTTCTCATGGGCCAACTTACTAGTTGCTTCCAGAAAAAAACATT
TGCAGCTTAAATGCAGCTACCTAGGCGTCCATCGAGTCGGTAAAGATGATTCTCAATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 632>:

GNMIG92TR gnm_632

GCTGGTTGCGGATGGTGGGGATTATGCAAATTAAGCGGTATTAGTTACGCTCATACAATG
AGTACTAGGAAGCATCCGAATCAGCGGCGGCCGGAGGCTTGCTGGTGTGGCGCCTCCCGG
GGGAAATAACACAGAATTACTATTGATTTTGAAAACGCGAGTAGGCTAAATAGAAGCAGG
GGCCATAGAGGAAGATGGTTCGTTGCAGGGGTGCGGTTGACAAAGGGGTCGAGGGGAACA
TAAAAGGTAGGAGAACTAGTGGTAGTGGGCAACAAGAAAGGCAAAAGTACGGGGGTAACC
AAACAGTTGTGGGTAAGGGTACAGATACTGATGGTCAGGGGGGCCAGGGGCATAGTAAAT
ACTGCAGGTAAAAGGCTGCCAACAGAATGATGGCGTACGCGGGTAGAACTGGGGACACAA
TGAAGTAACGTACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 633>:

GNMIG94TR gnm_633

GCTTCTTTGTAAGTACnATGGTTTTCGGAACCGGTAGCTTCTTCGGCACTAATACTCGCT

GCGTCCGCTCGGGCCCATCAGACGCTACCGGCACGCTCTTCGGCGAATCCGAGGTCCCTT
CCTTCGAGATCCTCCTAGGGCTCAGAGCCTCCCGGGGGGTGAGCCTGCTGGTAGGCCGGG
GCTGCGAATGTCCTCTCCTGGGCTTTCGGGCTCTCGGGGTATTTAACGAGTTCTTCAACC
GAAGTACCGTCCCCTCCCTAGGGGTCCTGGCCCTCATGGCGGTCCTCCTTGCGGCTTGCG
GCGGCTTCAGAAAGGCTTACTGGCGGCACGGGGGTAGAGGGAATCCCAAAAAGGTCTCTC
CCGGCTTCTTCCCGGGCACGAGCAACGACGTCCGTTCATCCGGCTCCGCTCCCGGCAGCG
AGGTCGAAATTCTTCTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 634>:

GNMIG95TR gnm_634

TCAACTCCGGACAAAGCTACACGCTCCAGCTCCTAAGTACCCCCACGAGCGCGGGTAGTC
GAGGGTTGGGGGTTGGGGGCCGGCAAATCCGACAAGTACATGGGAGGTCCCACCCCGCGA
ATTTGGGTTAAAGTACCCTAATATAGACCCTCCGCTGGGAGCGCGTCGCAAATAGTAGGC
GGTTGGAGTCCGGGCGGGAGTACCTGGTCCATCCCCTCCTCTCTCTTCTCTTTCAGCGGC
TCTTCTCGCTTCCAATCTTCGAGCTTCGTGCAAACTTGCGTTGGGTACATCCTAGGCTCG
TAGGGTAGTTTGGGGGGCACTACCGTGGTAGAATTCTTCGCAGGCCTAATAGGGCGAGAA
TTGCTGGGGGGTACTGTGGCAACCCTCCTGGTCCTATCTTCGTTCTGCTCCTACGACAAC
GGCATTCCTCGCGTGGGCGTCCCTCTCCTGGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 635>:

GNMIH01TR gnm_635

AACCTCTAGGTACGTCCGACATTAAACTCCAGGTCTGCAGGCCGCGCAGTGTGAGGTGTA
GGGCGGCGGTAGGGGCCGGAGCGGTGAAGCAAGTGAGAGCTACCCCTCCTCCGGGCGTAA
GAGTGGTGCGCTGCTAGTAGTAAATTCGTCAGGCCAAAACGCTGCTTTGCTTCTGCTATG
GGGGTACATCATTGGAAATTCGGGTGAGGAAAAGACTCTAGGTTATGGGGTACATCCTAG
TTGGAGCGGGTTTCATTAAGTTCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 636>:

GNMIH02TR gnm_636

CCTACATCTCACGGCTTCAGGCGGGCCGTCAGCCTCAAACCGGTGGGGGTTAATAACTTC
CGGGGCCGCTTGCTCCTTTGCTGCTGGGTTCTTGGTTGCTTCTAATGTAGGATCTTCTGG
GGCATCCTACCTCCTAGGGAGTGCGCTGGGCAACCTCGACAAAACTGCTGCTATAACGGG
TGCTATTCATAGCATCTCTAGCTGTCGAAGCCTCCTAAGTCCTAGTCCTAGCATGCGGGG
CCGCGATCCAAGTCGGCTTCGTAGTCGTAAATGTCATCATGGACCTAGCTGCTGCAGCTC
TTCATTATAAATTGGGGTCTCTACGGGCCCCTAAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 637>:

GNMIH03TR gnm_637

TTAAAAACTTTCGCACCTAACTGTAAATTCTAACAAAGCTACCTCTCGCTGGGATTAGGG
TTACTGGACCTCCTAGTCCTCCTATACCTGGTATCTTAAGGCGCAATCTGTTTCAACGTC
TTAGTGGCCCTCGCGCTAAAGTTTAAAGTAAATTGCGGGCCAATCCTAAACACGGGCTTT
TCTCTTGCAGCGCTTTCGGCACTTGCGTTGGTCATTATTCGCGTAGTCATCCGCTCCTTC
CGAGCTCTGGTATTCGAGGTGGCCTCAACTGCGGCAAACATGGTTCTTCTAGGATTGGAG

AAAAGAAAATAGTTTGTGTAACTACGTGCAGAAGCGGGCCAGGCTGGCACAGGCAGCACG
AAGCCGCGGAAAGGTAATTGGGAAAGGAAGAATGGAGCCCAAAGGGTGGAGAGACACCTA
GGACGGCTTAATAACAGCACTAAAAGAAGCCATACGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 638>:

GNMIH05TR gnm_638

TTTCCGTCGAACGTAGCTTCTTTCTTGCATTCGCTCAGCTATTAGAGGCCAAATGCATAC
CTCGAGTCCGGGCCCTAGAGGCACAGGTCCGAGTCATCGCTACTGGGGTCCTGGTAATGG
GATTTCTTGCTTCGGGCTTCGTCCTCCGGGGCCGTACTATAATCGGCGGGGGAAAAACAA
TTGCGGGCGGGGTCCGAGCCGAAATCCTGGTCGTCTGCTTCATGGTCGATAATAATTGCT
TGGTGGCCAACAATATCACAGCTCCTCAAGTAAAAGCCAGCGTCTGCTGGGTTCCAAATG
CGGGTCTCTTTGGTCTCTGTAAAGCGGTGGGTAACGAGTTTGCGGTCGTAAATTCTTGCT
TCGTTAACTTCGTTAGGCGCGAGGCTCCGGTCGTCCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 639>:

GNMIH06TR gnm_639

GGCAAAGTAGCCGCTCTATTCGCCTGCTTCACAAATGCGGCTACTTCGGTCAGCTTCGTG
CAATCAGGCGTTCGAGCCGGGGATACTTAGGTTACTATCTTCATTCTCGTGGTCACGTTC
CCTCGCGTCGATACCAAAATTACTCGCGTGCTCTTCGTCTGCAGCCTCCTGGTGGTCATA
GCATCTCGCCGTCAGCCCCTCGGGGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 640>:

GNMIH07TR gnm_640

TCCGTTTCCTGGCGGTAGCAAAACTTTATCTGATCCCGGGTGAGGTGTGTTGCTGAACCG
GGGGCTTCGACCGTCCAGATCAAGAGTTCATTGATAGGGTAAAGGGATAGTGTGGTTAAG
GGTCTAAATGGCCGCGTTAATGTGGGTATCTTTGCGGGCTTCAAAGGCAGCCGTACGTCC
CTCCAGGTCTTGGGAGTGCTCCTAGTCAGAAGTATCTTCCGCTTCAAGGGCCTCGCCTCC
ATCGGGGCGTTCAGATCCAAATTGCTCGACCGGGCCCCTGCGGGCGACGTCGTCAGCAGG
GGAGTGGGCCAGCTCCTCCGGGCCTCTCGCGGCTTCGAATGCGTCGACCTACCTGGGGGC
ATCCATACCGACGCTAAGATGGTCCCGCCCAGTGTGGTCATCAACTCCCACATCAGCTTC
AAGGCCCGGGCGTTCGCTACTAGCTCGGCGGCTCTTAGCCGCAGCGACACCTCGGGCTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 641>:

GNMIH08TR gnm_641

ATCGCACTCCGGGGAGTTAGGATTCTAGTAATTAGGTTAACCAAGGACTACATTCGTACA
ATTATAGGAATCCTAGGCACAAGGGGTCCAAGTACCTAAAATCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 642>:

GNMIH12TR gnm_642

AGCCAGCCAGGTCGTAGGTTTCTCTACCTCCCAAGTGACCGTGCGTACGCTCCAAATGGA
GTCCAGAAAATCCGGGTGCCACTAGGAGGTCGATGCCAGGTTTATGGGTCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 643>:

GNMIH13TR gnm_643

GCTTCGGGATTCTCTTGAGGGACAACTCCCTCCATAAAATCTTGCTTCTTCGGCTTCCAT
ATACTTGTCCTCAAGATATTCTATGTCGGCTTCTTCCTCTAGGCAAGGGGCTTCATCTCC
GTAAATGTCGCTCTTGCTCTCTTCAATGCAGCTACGTTCTTCGATTCTAACCTCGCCCTC
TAAGCCTCCTCAGGTGTCCTGGCCAACAGCACTACCGGAAACTTAGGGCGCTTCAACTTC
ATTAAACTCAACGCCGTCAACTTCGTAATGGTAATGTATTTCCATAAAGTCGCAGGCTAC
CTAATCTTCTTCTTCGTCCATCTCTTAGCCTGCTTCTTAAACAACTTCCGCTTAAATCTC
TTTGCTTCTGCTTTCGCGTTCGATTGGTTTAGGCTACTTGCAGCAAATTTCATCGTCATA
AATGGCTTCAACTTTGCAAAATTCGGCAAAGTAACTACTTCTAAAGTTCTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 644>:

GNMIH14TR gnm_644

CCGGCTACCAAAACCCGGGCAATTCGCTAGTTCTGGTCAGCGTGCGCAGCCGCGGGGTTG
GCAGGGGCGGCGGCCTAGGAGGCGGCAGGAGTCGTTTGAGCTGCCGTCCCTACGGTAATA
AGGGCCTAGTCTCTTGCTTTTAAGGAAGTCCGGGGAGCTACAATATCTGCTGCTTCGCCG
GCCAAAAAGATAAGTCCTCCAGAGCGCCAAAGTCAGTACCTAGTGAGGAGGCTCGCCTGG
TACCTCTAGATCCCACACGGCACTAATCTCTGGAACCTCGCCGGGTTTCGGGGCAGCACC
TACCCTCCTAAGAGGCGTACTACGAGTCCTAATTGCTGCTGCTGGTTTGGCTGCTGGGAT
GAGGGTTGCTGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 645>:

GNMIH15TR gnm_645

CGCGGCTCTTAATGCTTCCATAGTCGGGCTTCACCTCGGCGGGGGCGGTATGAACATTAA
ACTTGCTTGCGTAGCGATTCTTCTCTTCTTCAGGGCCAACTTGGGTACATCCTAGGCCGT
CAGTACTTACTTCCTCCTCACGGGCATTCAATTCGTCCCTGCTCCAGACTCTCCTAGAGT
ACCAGCTTCTGCTAATAACCGCCTCCTGGGGGTGCTCTGCATCATCCCCGGGGGAAACAA
ATGCTTCATAGGCTTAACTATCGGACCAGGACCAACGGGATGCGGCTCCAGGCTATATAT
GCTAGTCCAAATAGTGGGTCTTCGTCCCATTTGCTTTCTCTGTACGGTCCTAATCCTCCT
TCTTAAAGTCTTCGAATTTAAACGTCCTATAAAAGCTCGGGGGAAGCTAAAGATCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 646>:

GNMIH16TR gnm_646

GAGGTAGGTAAATTCCTCTAATATAGGGTTAGTATCTTGGAGGGCACTTGCGTTGAGATT
CAGCTTCTGGTCCCTAAACGTTCAATATCTCGTAAGATTCTTCGAGGCCTGTACCAGGGT
CCTAAAATTTCTACGCTCCAAGCCCCTCGAAATCTTCAAAGTAAACCGGGTATCTGCGTT
TGTTATCTGCTTCTTCTTAAACCTTTCTAATGCCAACTCTAATATACTCTCCCTAGTAAA
GGACCTGATTCTGCCGAATTCTTCCAGAGCTTCAAACCCCGTGCATCAGCTTATTCGCTC

TGCGTAAATTTGGGGGTGCTTCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 647>:

GNMIH18TR gnm_647

AAGATCTTCATCTTTCAATAGTTCTCGGGCTCACTCCTACAGCCTCGGCCATAGGTAAAT
TCAAGTACCTCTCCACGCTCCATGCATTCGTTGTCATGCTTCAATATAACAAATTGATTC
TAGTTCTCTTTCTTAGATTCGATGTCTACCTCCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 648>:

GNMIH23TR gnm_648

TGATTGCAAAAATTCTGGCTTTAGGGTTGGCAGGCCAAAAAGTCCCTGGGGGTAAGCTCT
CCTTCCGAAAGAGAGTCGAAGCTACCGGCTTCTTAACTGGGAGTGCTTTCTCGAGTTTAA
GGCTGCGCTTCATGACACGGGCCTTTCAGAATTAGGGCCTCCAGGCGTTGCAAATAGCGT
TGATAGTACTTTTAACAGAAACTGCAGCCTTGCCGGGAAAGGCTTACTGTAAAGTCGGCT
CTTAAGATTAGTTTTCTGTCCTACATAAATGTAGGGTATTCGTCAACTTATCGATCCGCG
CCGCGTTCTTCAGACTTACGGGCGTGGCTCAGCGGACTCCCCGGGGCGGTTAGGCGCTAG
CAATCCAGCGCGTAGACCTAAAGACTGCGGGATTCAGGGCAAAACCACGAGGGATAGTAC
TTCAGCTTCGTTAAAGGGGTAGATCGCATCGCTTGGTCTTAAACTGGTGGTACTCTCTCT
ACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 649>:

GNMIH25TR gnm_649

TACCAGGAGGGTAATAGTACTGGAACCCCAGCATAAGCCCATAGAGGGAGGTCCAAACTT
CGCAGGGTTCTTGGGTACATCCTGCCCATCCTAAGCATGCATAATTGAAGATACAGACTA
ATCTTCAGAGGCATGCGGAGTCCTCGGGGGCGGCTTCTGGATCCTAGTAGCACCAAGATA
CAAAATCTTAAAAACTCTCTGCAGTAGCCTTCAATCGAATAAGCTTCTTTGGTAACAACT
TAGAATTAGACGAAATCCCTGCCTAAAAATACATCCAGCTAGATGTCTTATTGAGATAGT
CCAGATTTTCCATAACAACAAACATTCGCAACTTAGATGCATACGGGGAAATTACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 650>:

GNMIH26TR gnm_650

AAGGAGTGGTGGTACTTGCCGGGATGTCAGGAGGTTAAGCACGAAGAAGTCTTCCAGGGG
TGTTGGGGGGAAGAGACGAAAAGGTAGCAAAAGAGCCAGGGGTACCAAGAGCGTGGGGAG
TGGTAGAACTTGTCGAGGTACCAGACCTACAGCCTAGGGGGGGAATTTTCGAACGAACTA
AGTGGGTGTTTAGACGTCGCTGGAAATGATATCTAGTGGGGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 651>:

GNMIH27TR gnm_651

TTTCTTCCGGGCTCTCCTCCTGACTAAAGTAGCATTCCTCACGCTGGGCCCAAGCCTCCT

CCTGGCCAGCCCTCGTCCCGGGGTCGAATTGGCTCTCCGTACGCTCCAAATCACGGTTCG
ATTTAAATTGAAACACCAAAAGCCAGGATGTAGAAGGCGACGTGGGTGGGTACATTGGAG
CGTCGTGCAAATCCCAAATTCAGACCATCCCCAAAGAGACGCCAGGAATAAAAAGTACCA
TAACCTCCTCACTTCTACATACGATACAGACGATCCAATTCAGGTATGGCCGCTGGTACT
ATTGGACACAAGTCGGTGTGGGCACTGAACCTCACCTAATCTTCGATGCCGGGGGCGGAA
GTTATGAGAAATGCTTTCTTGCGCACGCCTCCACTACCCAAGTGCGCGCTCCAGGAGCTT
AGAAAATCCGCGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 652>:

GNMIH28TR gnm_652

AAATTCTATAGGTAAACTTATACAAAGGCTCCGGAAGTAAGTTCTAGTAGGTGTGGTTCC
TACAAACGAGTTCATAGTATTCCTAATAGTATTCTAATACATAATCTTAAACGAAAGGGC
CCGGATAAAAATCCTCAGCACCGGGCTCGCTCTGTCCATGAGATTCCGGATCGGATTGCT
AATATACCTAATGGAGTTCAGAACCTGGGAAATACTGGGCCACTCATATACAGGAATCCT
AAGCGCAAGTGCAATTACAAGCTCCTAGGCCGTGGCCCTAAACTGCTAGGAGCCCCCTAA
AGGTAACCCTAACCAAATACTTCGCGTACTTGAAATTAATAGACTAAAGCCTAGGGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 653>:

GNMIH29TR gnm_653

CCCGCGGCGATCTGGGGTTCAACTCGGTACTTATCAACCTCCTGGCCGTCCTAATTTTCG
TTCTCTTCAGAGGACTAATTGCTTTCGCTTGCTTCAATCTGGTTAACCCTCGCAACCTTC
GTGACAAAAGGGGCCGCCGTCCTCCTACGGGCCCTCTCCATCGGGGCAATAAAATTCGAT
TCTACCTAGGCCTGGGCTGCTTTCATAAGCTCTCGGTCTACAGCGATTATTAAGTCCCAT
CCCCTAACTGCCCTACTGGCTACCTCCAGGATCATCTCTGCCCTCGCAAACTTCAAGCTC
GCCAAGGGAGGATTCATAGCCGCGTTCTTGATTCTCAGCTTCAGGGCCGCAGGGCTTCGC
TTCCTCTCTGCATCAGGCTTCACGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 654>:

GNMIH32TR gnm_654

GTCGTGCGAAATCCCTGAATCCTGCTTTACTCCTACGTTCAGCGTTCAAAGTACTTGCGT
CCCTACCATCGTCGTCTCCAACTCCTAAACTGCTCTCCCATCCTTGGGCTGCTTTCAGAT
CTTCCGAGTTCATCCTGTCAGCACCGGGGCTGCTGCAAGTGCCTCCTCCAACGGGGCTGG
CGCTACTAAGTGCTTCTGCAGCCTGGTCATCTGCGGGGCTACGGCTACTACTCGCAAGGT
CCCTCCTAGTACGGTAAAAAGTATCCCCTCCGAGGGCAGGGGCCTCTCTACCTCACATAC
CCTCCGTCTTACGATCTCCTCCGCCGTCGCCTCTAGCCCTGCTTTTCGAACTCTCAACGT
CAACGGGCTTGCTCCTGTCCTCCTGGTTCTGAGTACCTTCTGGGTAGATACTAGGGTAGA
CTCGGCTAAAATCGAGGTGGTTCATTACGGGGTTCCGGTCATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 655>:

GNMIH35TR gnm_655

GATTTAGCTCTTCGTTTTCTCTGTACCAAAGGTCACGAGTAATGCCGTCAAGGGTACTCT
ATCCTCCAGGTCTAGGGCAACGCTAATGGGTTTGAATACAAAAACCTTACGAGCTCCGAC
TAGATCCTTGGGTTGCTAACAAACAGGCTTAGCACTTATATCTAATGCATTTAACCTCAA

TCAGATTATAGTTAAGATTGCGTTTCTTATGCTATTCGTATTCAAAGTCTTAAATACTGG
AATTCTTATAAAACTATTAGTACTTCTCAAAGTACATCCTATTCTATTTAACCCTACTAA
GATACTCTTCAAAAACTTTACTCCTAAACTTACATGAGTAAATACTCGAACTCATAATTT
GAGAACTGTCAGGTCTACTGCAGGTACTATAGTCATTTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 656>:

gnm_656

TAGGGCGAGTTCTCGGGAGTCCAGGGTGCGGGGGTATGAGAAGACTTCCGGGCTTCGGC
TACCTCCGGGGAGCCCAAACCTCCAGCAGCCGATCCTCGGGCAGAAGTCCTAGTACTCCC
CTCACTCCGGGTTAAGATCCTCGCAACCTGGGCCAATGGGGCTCTCTCTAACAGCGTCAA
ATCTATTGGCGCCGAGTCAAACCGCTCCACAGCCTCTCTCTGGTCCAAATCCTGGAGCTC
ACACATCACCGAGAGCTTGGCCTCCATGGTCGCTAGTTCAGTCCTAAGAGTCCCCTCGCT
AGGCTTACTCCGATCGGGAAAATCCAGCCCAGCTGCCGTCTTTTTGCGGTCAGCTCCATC
TGGCTTGTGCGTCTCTATCCTGGTCCTCATAAGTGCTGCATCTCGCTCCTCCAGCGCCGG
GGCAACCAAACtCCTCCTGCCGCTGCAGCCGCTCTCAAATCTTCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 657>:

GNMIH38TR gnm_657

ATTTCTGCGAATATTCGTACTGTTCTTAAATCTTGGAGTCCCTCCATCTGGCTTCAGTGC
TAGTAAAAGATCTATGATTGCTTGGATTCGGGTCCTCATAAGTAATCTCGGAGTCAATGC
TAGATCTCCTACCCCCGCAAAATCTTGCGTCAACGCGTCCTCCAAAGTTGTAAAATTTGG
AAAGTCTCTCTTCAACAAATTGGCCCTCCTCAGGGCCGTCCTCGCCACAGGATTCGTTTT
CTTGAGGGTCATCAGCTTTAATCTTACCTTATTAAACAGCTTCTCTCGTGCCTCCCGGGC
AATCGAGGCTCTTGCTGTAATCAATTTATTCTTCTTCTAAGTCTTGATCCCTGCCATAAT
CTTGTCCAACCTATCGGGCGTCGCGATCATGGAACCCCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 658>:

GNMIH42TR gnm_658

TGCTTGGGCAGGGCTGTTCTTATGGCCCTGGGCTTCGTAAAACTCGCGCCCGCGCCGTCG
TCAGGGCGGGCGTTAAGGTCGTAAGTACTTCCGTAAAAGCCCTAAGTACGGCGGGCATCT
GGTTCATGGCTCGGGTAGCAATTGAAGCTACATCCGGGGGTGTCCTACGTTCTAGAGTTA
TTACGGCCGGCTCCTCCGGAATTAGACTGGTTAATATGGTGGTTATGGTCCGCCCTCAGC
GCCGACCCTAGCCGGGCTGAATTGGTGGGTGCACGTAGTAGTGCGCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 659>:

gnm_659

AAAAATGCGGTAATGGTGGTGGTGCCATGGTGGCCGTGCTGGTCATTAATTCGTTGCATC
ACAAGGGGATGGATATTAATAATGCCATTCTGATCAATTGGGCAGTAATAATCGATTACA
TTATGACAAAATGAGAGCGCCGTAGGTATTACTCGGCGGTGGTGCTGCAGCCCTAGTCCG
GGCTGCAGCGCCCCGGAGGTTGGTTGCATTAAATATCACCAACGCCAACGCTTCGTGCAA
CATTTCAGGGTTAAAAGTTAATGCATTTTGGTCTAAAAACTAGGCCCTAAAGATCGTGGT
TGCATCCGTCTTTGCGGGCGCCGATAACGAGGCTGCCCTCCATGCATTCTCTATGATATT
CGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 660>:

GNMIH46TR gnm_660

TGGGTTCCCCAAGGCTTCACTGCTGGCTTGAGAGCTACAATCAATGCTGCAGCTAGAGCA
GCAAACACCAAACCAGCTGCGGGTTCAGCAGGAAGTACCCGCGTCCATCTCCGCTCCTCA
GCTTTAGTCCTCGCAGCAGCTATCAATATCAACAATATCATTCTCTTAGTCTATCCTGTA
AACACTGCATTCATAAGGGTTAATTCTTACAACCCCTGGCTCCAACTGCCATCTCCTGGG
ATCTCTGCCTCAAACAAGCCGCCACCAGGGCAATCATTATAGGTAGGGCCAAAATCAGAG
GGGCGGGCTTTCTCGATGTCAGGTGGAACCCAGACCACGTCCAGAGGGTTAGCTTCGTGC
AAAGATCCGGGGTTCGGGTACATCCTAGGGTTCGCGGGTACTTTACTAAGGTCCCTCCAA
GCTCCTAGATCCCAAGTCCCGGCAGGGGCGCTGCTAGCCTCTCCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 661>:

gnm_661

CAGGAAACGCACTTGCTAATAAAAATCTCAACAACTCCATCACGGAGATCAAAGTAACAA
CAAAAAATGCATTTAACCTCATCAAGGCTAATTTCCTCGATAAAAAAGCCGCAAACGGGG
GAGTCTTAGTAAATCTTCGTGCTAACTTCCTCATAAAAGCCTCCCTTCTTATCCGAATAA
ACCTCGCCGAGTCTCTAGGTGCTTACGCCAACATAGCTTGGATAGCCTCCATsCTTCGTT
CCGACATAGTCGATGCAATTTAGGCCCTCGATTGGTTTCGAGCAATAGTCCGTACAGGGG
CCAACGGTATGGCCCGGCCCTACTAAAACCGAGTCCTCACTCGAGTCATTCGAGCTGCAA
ACACTAATCTAAACTACCTCACGGCTCTCACGGTGGCAATACATGTGATAATCCTACTCC
GAACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 662>:

gnm_662

GCGTCACCTTAGGCCGAGTTACGGTCCTAACCGACCTGGGAATTGGCCTCACTACCTGTG
GCGTCGCTCCATCCGGGGTCGTCACTTACAATATCCTACCTCGCGGCTGTACATCCCTCT
CCGGCATCCTAACGGCGATTTACGTGGGAATTCCACTCGTGGGCCGGGCCTATAGATCTT
ACAGCGTCTTCCTGGTAATCGTCGCTGCTAGGACCATGGGGTTGCTTCTAGTAAGCATGG
CCATGGCCTTCGTCCTGGTCAGGGTAAACCGGGGCGGCGCTCACTTCGAGGTGGTTCTTC
TGGCTCTTAGTACGTTCATCGGCCCTATACGATTTAGCCGGCGTCCCGTAAAGCTCTTCG
CGGTCTCCTACAACGTCAGCCGGCTGGCCGAAATCTTCCTAGACTGCTGCGTCCCAAGTA
TCCTGGGCCGCGTGGCTCTGGGCTTCGGGGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 663>:

GNMIH50TR gnm_663

GCAAAAATTGGTAATAAACTCCTCCAAATAGAGGGGCCCCAGCTTCTGGATTTTTTGCGC
CCCTACTACTTCCTATCCGGCCTATCCTCGGGTCCTCTACTACGTTTGCTGGCTTCAACG
CGGGCTTCTTAGTCCTCTCCTCCTACCGATCCATAAATTCCGTTAGCGCAAAGAGCTTCT
CTTCCATCAGCTTAAAAGTTGCTGCCCTAACCTAATTCGTTGCTTTCAACATAATCCTAA
TCCTCGCCGAAGCCGCAGGCATCATAGTATTCGGGGCAGATATCTCTAAAAACAACTTCT
CGCCCCTCAACGCCTCAACTCCTGCCTATATCAAAGTTCTAAGTTCTGTATCTTTAGTTA
CTGGGTTCTTCAATCCTGCCTCGCCAAAGGCCCTCCCAACTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 664>:

GNMIH51TR gnm_664

GTTCTAAATTATTGTTAATTGTATAAATTTGGGAAAAGTTCTGAGAAGTCTTTCTAAGGG
CAGGGAACTAGGTGGATGGCAAAGCCTATAAAAAAGTTAAGTTCGTAAACCTAGCAATCA
TTGGTGCTTGCGTAACTAAAAACAGGGTAAATGCATCCTGCTCGGGGCCTACCTCGGGCA
ACAGATCCGTCCTTCTGCCATATCTCTGGATCCGGAGTACTAAAGTTCGATCTTCAGGCG
TCACTAAATTCCGGGCGGGCGTTCTGTTAGTCCTCACCAAATTCAGCGCCGTCCTAACCA
AAGCGATATTGGTGTTCAGGTAAATCAGGTGGCACGGGCACTGGCTCGTTGCAACCGAT
CCTGGTTGCTTGCTCGCTCCGCCGTCAATATAATTGGTGCGATAAGACTTTCTAAAACTG
CGCCGAGAGCCCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 665>:

GNMIH52TR gnm_665

AATGTGGCTGAGGCTAGCTGCTAGGCTATACGGGCAGGGCATACTGGCGACAAAGTAAGG
TTCAGGAGGATTAATAAGTCAGGCACAAAAGAAAAAGAAGGGATTGCAACTGACAAGTAC
GGGGCCCTAGTTACCGGAGGCGAGGAGGCAAGAATGGAAAAAGAGACACAAAGGAATTAG
CTAAGGTGTTGATGTAGCCTGCAAAATTTAACTTCAGATTCAATGGGTTGTTCAGAACTG
CCAATAGTGCGGAATCAGCGTTCCTGGCCAACGCCAACACCTGCAAATGCTTCTCTTGCT
CGGACTCCCTCGCCGCAGGCTTCAACGCAAAGTTCGGCAAAAATAGTTCCAGCTACATTC
GGGCAATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 666>:

GNMIH53TR gnm_666

GCTTTGTTGTGCAACTTCATTATGCTATTTAGTACTGCTGGCTTTCAGATAGAGGCGCTA
TGGGTCTTACAGATCTCCTTAGACGTTCTATTCACAGACAATGCAGCCGGTCCAGCAAAA
GATTAACGGAAACGAGGTGCTTACGACAAATTGTCTGTGTTCAAAACATGTGCTGTTTTA
GTAAAGTTCTCAATCCGCGACTCCTGCTTCAGGCATAAGGGAGTGGCCCTAATTAATCCT
CGGGGCGGTTAGGCACTGGCAAGCCTCCGGCTCGACAAAAATGCTGCGGGCTTGAAAAGA
AAGCCCCTCCTGCTCGTTAAATGCCTACGAAGCAGGGGTAGATCACAGCGATTGCCAACA
AGAGTCTTCTTCGGGGTGGATCCGCTACCTAGATGGGCCTCTAGCTTCCGTTTCTCGGGC
GAACATAATGGCTTCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 667>:

GNMIH54TR gnm_667

GTCCGATTTCGCGAGTCCGGTTCGATGAGTGCGATGCGTGCTCCTGGTCGTCTTGGCGTT
GCAGGGGGCGGAAGTTATGAGATGATTGGTATAGGGTGGAAGAAAGGGGAGCACGAATTA
GATGGTGGCCGTCGTTAAAAGTCCGGGTCGTTGGCTGCTCCTACCGGTCCTTAGTCCGGG
CCCTCTCAGGGCCAAAGGGTTGGAGATCCTACCTATTAATCCTCCTCTCCGCGGGGGTTG
CTGCGGGGGCAGAGGGATGAGTGGCCGTCTTTGATTTCGGTACTGGCTTCAAGGGGAGAG
TCCCTCTATCCCTCCGAAAAAGCTTCGTCAGGTTGGTACCCGGTGCTCGTTCCCTATCTA
AGCCTGGGCCCGTCCCTCGAGCCCTCGGCTTCTTGCTGGAGGGGCTGCGTCGGGGATAC
TCGCCGTCCTCCAGCCCGAGGAAAGGAGCGTCGTTATACGGGGATCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 668>:

GNMIH55TR gnm_668

AGGGCAAGGGTTTGACGGAGTGACCATACTTTTGAGGTGGGAATGAAGGGTGAACTGGCA
AAGGAGCACATTAGAGCTGATGATTAGGGAGTAATGGGGGAGGGGCGGGAGGCCCACGCG
GGGGATGAGCATTGTAGCGCAATTGCGGAAGCAATAAATTACGGGTAATAAGTTTCACTT
AAGCATACCAGGGCAATAGATCCGGATAGGGCAGGGGTACCCTATTAAAAGCCGGAGTTT
TGAGCCTGAGTGGCTATCCGAGATCTAACATAAGCTTATAAAAGCCTGGGTTCATATCTT
ACCCTACCAGCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 669>:

GNMIH56TR gnm_669

TTTTGTGTTTGCGCCCGACACCTCCTAAATTCTACCGGGCTGGCCCTCCTAGGGGTAATC
GCTACCTGCTGGGGTCAGGGGGGCTACTGGTCCGGGGACTGGTCTACAAATGTGCTGGGT
GGTCAAACTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 670>:

GNMIH58TR gnm_670

AAAACTTTGGCGAAATCTTGCGGGGCATTGGTCGTATCCTAATCCCAGTCATCAGAGCTC
TTATCAAAAACCGGTGCTTCGTAGTGGTTATCGGCAGGGTAAGGCTTCGGTTTCTACTCG
GGCACTTCGCTAGTGTCTCTTTTCTCTTAAATGGTAGAGAAGTCCCAAGTCTTCTTGGTA
GACTGCATCTTCTCAGCATGGTCTTCGTTCAAGTCAGGGTTGTCTGGCAACTCGAATTTT
AAATTGGCATTCGCGTCGTCGTTGCTCGTGTTAGTGGCCTCAGGGTGCTCGAGAATGGGC
GTAGCCCGGGATGTTGCTTGCGAGAAAGCCTAGCTGCAAGGGAAACTTTGGGGGTAACCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 671>:

GNMIH59TR gnm_671

CGCGTCGTGCAAACACCTCCGTCGGGCCTCCGTAGGCTGGGTTAGGTCGGCCAACAGTCT
AGGCGCAACTACGGGCGTAAAAAAGAGGTCTAATATCTCTTTTGCTTCTCTGCCCTCCTC
CGTACCCAACTCCAGGGCTTTCACTGCTTTTGCAAAAGTCGCCCTACCCTAGGAAACTTC
CCGCACCTCCAAAGGCTTCTTAAGTTCACCCTCACAACGCTCCGGGGCTCGCGCCTCCAC
TCCATGCTTCCGTTCAGATTCCAATAAGTATACACAAAAATCGTGCAAGCCTAAGCAATA
AAGGCAAGGGTTGGTGCTGCTGGCTCCGCGCTCGGGTTCTGGGGGTTCGGCGCAGCTACT
AAAATTACGATACCTGTAAGGGTATACTGGGCCAGAACCTCAAAAAATACCAAAGTCTTG
G

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 672>:

GNMIH60TR gnm_672

TGCGAGGCGTCTTCGGGCTTCGCTTGGGCCTACTCCGCGGTCCCTGCTGCCGTCCAACGG
GTGGAAAGCGTCGTAGGGATTCTCGCTTCCGTAGCAGCCAATCTCCTGCCATCCGAGGGC

TTAAACAAGAGGGAAATTGCTTCTGCATTCAACACCAAACTTCGATTGGTAATTGCAGCA
AATTCCAGGTTGCTGCGTTTAAAGCTTCTCGCTTCAGATCTCTCGCCTACAATAGTTTCA
GGCGTACTGATTGCTGTTGCTCTCCTAAAGCTCTGGTTGCTTAAATTAAAAGTACTAGAT
CGGAGTTTGGAAGTCACTGCTGCATTCCTCGAGGCGGTCCCTGCCGTCTTGCCTAAGATC
CTGCCGTGGCCAGGATCTGCCCTCCAGGCCGATGCATTCTCGGGTGCAGGGTTTGCATTG
GGAGTCAGCTCCATATTTAAGATTGCTTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 673>:

GNMIH62TR gnm_673

CCTTAAAGTCTTCCGATAAGCTCCTACTGGTCTCTAAAGTCTCTACATCCTTAAGCTTTC
TAACAGGCCTCCTGGGGCTTGCGGTCCTACGCACGGTTATGGGCGTGGGCAACTCCTGCG
CTACAGGCGTCCTGCTGAAAACGAAAGTTTTTAGGGGGCTCCGGCGATTCGTGCGGGGCC
GAGACTGCTTGGCTGCACTTAAACGCGGATTCGGATTCACAGGGGGAGGGATAGTGGGAG
ACCTCACAGTTAAACAGGCCAGATTTAAGGTGGTAACCCGATCTAAGGTAGGACTGGCCC
AAAGCTTCGTTGCAGGCACAGTTGCTTAGATATCTACCCGGGCCAAGCTCCTCGTGCTTC
TCGGCAGCAGCGGCGTCTTCGGGCAAGTTAAGGTCCTTAAACTTCTCGACTTCGCGGGCC
TAAAACAATTGTGCTTAGGGCCGCGGCGTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 674>:

GNMIH63TR gnm_674

TATTTAGAACCCGAGAGCGGGCCAAAAAGCAGGTGAAAATGGGACCTCGCTTCATACGAA
ACGTGGGCAGGGTACAACGTACAGAGACTCCGAAGGCGCTTAGGCCCGAATCTGTGTGGG
ACGCAAGGGGAGAGGAAGGGGCAGAGGTTAGACGGTATGAAAAAGTTATTAATTATGACT
TAGAAAGAACGGACGAGGTTGAAAATAAATCCGGGGAAGTTGCTTGGGGGCAGGCTCTGG
CTGGCTCGTCGGAACTTAACTCTACTTAGGCAGCAAAGGAAGAACAAACAAGTCAGGGTA
ATCAAGAAGGGTATCACGGTGGGGCCGAAGAAAGTAAAACAAGGAAAAAGCCTAATATTA
AGAAAAACGATACTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 675>:

GNMIH64TR gnm_675

AAGATCATAGTTCTTTAGAACAGGTCCGAGTCAAATTTCTTCTAAGGGCCAGCAAAGTAA
ACGGCTTAAGATGTACCAAGTGGGCGGCAAAAGCAAGCACCGCTGCCAACCAACACAACC
CCTGCTCTCTCAGAGTCGAGGCTGTAATATTCATCTTCTTTGCGAGCTTCCAAAGCGTCT
GCTGGTCTGGGTACATCCTAGAGTGCTTCTATCCCAACTTAGTCAGGTACCTACCCTTAA
AGTCAAAAAACACCACGGGCGTCCGGGGTAATTATAATAAACAGCTTAGGGGTGGCCAAA
CAGCCACTGGCCCGCAGCTTCTTAGCAGGAGCCAATGGGGCGCCTAAAATAGAACTATGG
TATCAACACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 676>:

GNMIH65TR gnm_676

GCCTCTTAGATTCTTGCTACCGTGCTTCGTTATCCATCTTTCTTAAGAAGAGCCCACATT
AAAGTCAGCGCGTTCAGGGTGGGGATCGCCTCCAGAGTTCGTCCTGGGCTGGTACGTGTG
AGAATCCTTGTAGTCGTCAAACAACTGGTAAGCGTGGGATTCTTGTTCGTGGTACCTCTG

GTTGGTTCTAGAGATCTTCGAGACGGGGGCGAAGGGGTCGGAGACTTCGCGGTGGGGTGC
TTAGATACGGTCCCAAACCAGAGCTGCTTCATCCAGGTCTTGCGCGTCATCAGATTGATT
GTGATTTTCTCGTTGCGAGACTTGCTGGTAAGGCTACCGGGCACCGGCAGTAAAGGTGGC
GAGCTCGTAGGGCCCGGGCCAAACGTGTTCCGAGCTACAGGTCCCCCCCCCCTAGGCAGG
GGCCTAGTTTGCGTGCGAATTCTAATCGTAGTTTCATTCCTATACACTAGCTGGTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 677>:

GNMIH66TR gnm_677

GGGGATATATGTAGCAAGGTAGTAAAGCCAAGTGCGCAGCCGTGAAGAGTGAGTTTAGTA
AGAAATAAAAGAGCAGGAGTGGGGACTGGGAATGCACAGAAACTAGTGGGAAAGGGGTGG
GTAAGAAAATTGAAAGGGCTGGCCAAGGGATGGGTGCGAAAACGGAGGGCGGCCCAGGTT
GTGGTATTGACGGGAATAAAGGGGTTAAAAAGTAGGGTTCTACTGGTGGGGCAAGGGGTG
AGGAAACGGAGGCTGGCGATAAGGGTTCCAGTAAAACTCTTAGAAGAAGAGGTAGGGAGA
CTTGTAGTGAACCTGGGAAAGGGAGGAAAGAGGCAACAGAAGAGGTTCGGGGTGGGATAG
GGCAGGGCAGGGCAGAGTAATACAGAGAAAAGCATGGGTTAAAGATGGCGAAAAGTGCAA
ATACGGAACGCGTGGCTGGGTGGGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 678>:

GNMIH67TR gnm_678

AAATCTGAGTCTCAATAAAGTCAATAGGTACATTGGTTGCTTGTCTACCTGAGCGTGGGT
GGAAAACAATGTCAACTCCCCTGGAAGCCGGAGATTGAGGGCCAACATCAAGACATCTAG
TAACCTAGTCCAGAGCGTCGTGCAACTTTCAGGGGTGGATGTAAATATTAAGTAGTATCA
TTCAGGCAAATTAAGGATAACCAAGTAGGATCAGCTAAGATACTATATGCCTACCATAAA
TTCATAATGTTTGTCGGGTTAAGAAGGGTCCCGGGGGCTCTTGCTTCTGGAAGGGGAGCT
TCGAGCAAACGTAGCTTCAGGCCCGGAGGATTCCTCGCTTGGAGCAGAGCCTCCGGGTAC
CCTCGGTTCCTCTCTCGGGTCCGTTGCAACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 679>:

GNMIH72TR gnm_679

GAATCGAGGACTACCGAAACTTTTGTGGTTTTCGTTCCTACTCATTTCAGTCACTTCAGG
CGCTGGTTGCTTCTCATTAGAGAATTTGGCTTCATCCAAAGGGTCTGTAAATTCCTAGAC
AGCTGCAGCGACGGTGTCTTCACAGTCATTATGATTATGGGCTTCGACTTCGTTAATGTC
GTTCTAGACTGGATTCGGTTTCCTCTAAGCTGGGTAATTCGGCTTCCGCTACGCCAAGAC
AATATCTTGGGTTAAAGAGTCTTCTTCTGTTCCGGTGCTTTCAAAACGTTCCGTCCTATA
TTCGTAATTCCGGGGGGTAAATCGCTGGCTAGCTCCTGCAAATTCGTCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 680>:

GNMIH73TR gnm_680

ATTCCGGGCTTCTTCAGGGGATTCAGGGTGCTGGTGGGGGGCCGCCAAGATGCGTTCTGC
CGACCTGGTCCCTGCGAGCAAAAATTCTTCTGTAACTTTAACCTCCAACTACTTCTTCAA
CTAGCCGGGGCAAGAGTGGGAGCTTACAGGGTCTGGCGGGGTACTACCGGGGGGCAGGGC
GTCCTAGTGCAAATAATACTCCTCTTCATTAAGTTCCGGGGCTTCGGGATCTCAAGTTCA
GACTTCGTGTTGTTGCTAAACAGATTCTGGGCTGTCGGCATCCAGCTAGAAGTTCACTGC

TGGGGTCACTCCGGAGACTGCTTATTCATATGAAACTTCGACTTGATTCGAATGGCnCTC
CAAATAGGGGTTGCGGGCTTGGGAAATATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 681>:

GNMIH74TR gnm_681

CTCTTTCGGATTGCCTTCAGTCCGAGCCCTAAAAATGGTAACCCTCGCGATTATAGTTGC
AATCAGCAAAGGGAGTGTGGGCAACTGCCTCCTCAATCTTGCTTCTATCACGGTCATAGT
AGTAAACCTAGTCAGAAGTTGCAAGGCCAATAATCTGGGTTCGGCCAAAGTTACTACGGC
TCTCATCAAAGTCAAGGCCGCTACCTCCTGGTTAATCACGGGAAGTGTCATCAAGGTTGT
CTTCCTCAATGTATCTTTCGAGGTGGTCCTGTGCTCAGGAATAATGGTCCGAGGTACCAA
AGTTGTAAGGTAGGCAGGCATGCCCTCTTTCTCTTCAAATTCTCTCATCTCATTCGATCG
AGCCGTCACTTCCATCACTTCAACGGGGTTCCAGGGAGTGGTAAAAGTTAACTTAAGAGC
CATTTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 682>:

GNMIH77TR gnm_682

GTCTCCTCATAGTCAGCTTCGCCGAATCCCTCGACCGGGTTCCAGTCGAGGTTGGTATGG
GCAAAAGTCGCAATCTCTGCCGAAGTATTACTAATCTTCTATTTATAGAAAATCTTATCA
TTATCCGTGCTCCTATAATCTTGGGTGTCCTCCGCGGTCTTAAATTCAGAGATCTAAATA
TAAATCCTACAAGTCTTCTTATCATTCTCTTTCGAGGGCTGAACAAATGGGCAAGTTTCG
ACCTCGACTTGGGTGCTGTTGTCGGCATTAGCGTCTTCATTAGTAGTGGAAATCCTGCTA
GTCTTAGAGGGCATCATATCGTGAATACTCTAAGTAGTACTCTCTTCAATCATAAACTTC
TTACTCATCTAGACTTCAAATTCAACTGCTTTCACGGTCCTAGTAAAAGTAGTATAAGAA
TTCTAAGTACTCGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 683>:

GNMIH78TR gnm_683

GTCCGATTTATCATTCTTCCCGAGCAACTTTCTTTGGAGGTTTTCGTGAGTCCAATATCT
AATTGCTCCTAGGGTTCATTAGGTACCAAATGTGGAGCCAGGGGAAAACATGTATCCTCG
GGGGTCTTAGTCTCTGCCGCAGGAGCAGTCCTGCCACAAAACAGCGGTTTTATGTTCAAC
TTTCGTTTTCTCTTTTAATACCTACTATAATAATACCTTCGAATTCTGGTTCTTCAACTT
CTCTGTCTCTTTCTAATCTTCAGGATTCGAATCATTCATATCCGGTAACTTCGTAGGCAG
CAAAAAACTCCTCATTGCTCTTCCTGCATTTGCTGTAAAGATAAACTAATTCCTCATCAA
AAGAAATTCGGTAGTTGCGGGCCTCATCCTAAACAAGATATTGATCGTCTTTAAGTTCAA
TGGGGCCATCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 684>:

GNMIH80TR gnm_684

AATTGTCACAGGTGACAGGTTTATGGGTCGCCCAAGCATCCGGTACGGCTAGGTTCATAA
TATTCTAAGTGGCAAATTTTGTTCTTCGGAGAAACATAAAGTCTCCTATAAAAAACTTCG
TGCAAAGCTGCGGTCCTCCGGGTACATCCTAGGGCTGTAAATGGGAGTACCTCGAAGCCT
CTCGGGTCTTGGTGTTCTTCATAGGTGTGCTATACTCGGGCTACATCCGGGTAGACTTGC
TAATTCTCTTTATAGTCTCCCGCGACGCTTACTACTCGGTCTAGGGGGTATTAGTATGCC

TGGGACTCCTAATCCTAACGGTCTGCTTGATGGGTATGGTGCTGGGACATATTACTAAAC
TAAACTCTAAGGTGGTCTTTAAACTAGGTACAGACTTCCTTAGGGTGGTTCCTCTCCGAA
GGGTCCTGGTCCTGGCTAACCATCAATTCATCCGGGGCGTCCTCTCTAAACCTGTCAGCC
TCCTCCGGATTCTGGTCTCCCTGGTCTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 685>:

GNMIH83TR gnm_685

AATCCGTACTCGTCGTCCTAAAACTTCGTTCTCTCTTATCGTCCCCTGCGGCTATATGGT
CATTCTTGTTCATAAAAGTAGTGTTCCTCAGATTGGCTCTTAAAAACTTCGTAATGGCCC
TCATCTGGGACATCCTCGATTCCCTAGTTATCTGGTCTAAGATCCTCCTCCTCTCGTGCT
GTTTCGTAGGTCTCCGTAAATACCTACCTCCAGGAAACGCGGCAATTAGTATCCTCAAAT
ACCTCAGAGCCTCCAGGGGGTCTTTCAGTATCTTAGGAGCCGACAGATTCTTGGCGTCTA
ATACCGTCAAAGTTGCTCTCCCTTCCGGATCTGTGGCGATACTGTCCCTAAGCGCCTCCC
CTGCCGTCAGCGGCTTCAGCCTAAAAGTTTTCAAAAAGCTTGCAAATCCTCGAGTCCCTC
AATGTCCAGGCTCGGGCACTACTCCTAAGTGCCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 686>:

GNMIH84TR gnm_686

GTCCGATTTCTCCATGGCTGGGGTTCTGGGCCTGAACGAGCGTGTGCGGGGAAACGCAGG
AGGCAGAGGTGCTAGAGGTTCAATCCATAGTAAGCTAGTATTGGCGATGGTTAAATTCCT
ATGCTTAGGAATAAACCGAGTCCTTAGCTTGCTTCTAGCAGCGGCGGTAGTTACGTCAGG
ATTGATCCTAAAAAGATTGGTCTGCCAGACGACCCTATTGGTGGCCGGAGCAAGTGTGGG
TCTGTTAAGAGTTAAATCGGGTTGGCTACTGAGGCTTTTTCTGGGCCGATGCTTGGTTCG
TCGGGTGGTTTCCGGAACTACGAGGGCTCTCGTTACCCTAAGAGCCGGCTTAGACAGGGG
CTTGCGTTTCCGCGGCCGTAACCGGGCATTGCTATTCAGCGCCCGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 687>:

GNMIH85TR gnm_687

GTCGTACTGGATCTACTATTTACCCTTGGCTAGAAGTTCCATGCCGAGCAAAAGCATGAG
CAACAAAGTTTTGGCCAGCTCGGCCAACAGCAAAAGCGAGTGCAAGTACGGCATATAGTA
CATAAATACTTGTAACATAAGATCCAATGGTAGCAAAAAGAGCAAAAGCAGGAGCAACAA
AGTTTTGGCCAGCTCGGCCAACAGCAACAGCGAGTTCAAGTCCGGCATATAGTACATAAA
TACTTGTAACATAAGATCCAATGGTAGCAAAAACGGCACATACGCACGGGCTAATTAACA
CTTCTCTACTTCTCACTTTAACTTCTTATGTACTGCTAACTTTAACTTCTTCTCTAACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 688>:

GNMIH86TR gnm_688

TCATCAATTCTACATCGATAAAGACGATCCAATTCAGGTATGGCCGCTGGTACTATTGGA
CACAAGTCGGTGTGGGCACTGAACCTCACTTAATCTTCGATGCCGGGGGCGGAAGTTATG
AGATGGGTTCCATGGGTTCCTAACTTTGCTTGCTTCTGCAAAGAGTGGGTCCTCCAGGCG
CTGTTCTTAGAGTCCTGGATTCGGCCTCCCCTCCGGGCAGCAACATCCTATAAAGCTTCG
GGCAACCATCGGTACATCCTAGGGCGCTGCAGGTCTAGTAACAGGGAGGCGGGCCTGCTT
GTCAGGGCCAGCGTCAGCTCCATCTGGGGCCGTAGATTAATCGGAATCACCGACGTTAGC

TTTTAGGGCCGCTCCGTCAGCCGCCGCTGCAACGTCTTCTTATAAATGGTCCGGGGTGTT
AGTCCCTGGGCCGACTACGGCAAGGGGGTCCTGGGCACGGGCATCCnCCTCCGGGGCTTC
GCTAGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 689>:

GNMIH87TR gnm_689

AAAGAATAACCTTCGTGCAAAGTGCGGGGGTAATGGGGTACATCCTTGGCTAATGGCCT
AGGGTAGGTCGATCCGGATCTTCTGAAACCTCCTGAATTCGATTGATCACTGTGCAGAAA
AAGCAGGGAGCCAACTAACTGCGACTTGCTAGCAAATTGAAAAGTTAGCTCGAACCGCGC
GCTGGTACTCTCTATCTCGGTTAGCAGGGATCCTGTAAGCTTCGTGCAAAACTGTATAAG
GGGGTACATCCTAGGGCGGAGCTAACGAAAGAGGTACAGGTGTGCGAGATGCGGTACATC
TCGCTCGCTGCAACATATTGnTGATCTGGCTGCTACAATGGGTCCCGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 690>:

GNMIH88TR gnm_690

TAGAACCGATTTTGCTGGTGTCAAGAAGGGTGATTCATGGGGGCAGCTGGGTAAGACAAG
GTAGCTTCCGACACACAAGAAGACCTGGATTAAAACACCTTATTACGGGAAGGAAGCCCG
ACGGAGGATAGGTCTTACACTTCAGGGGAGAGCTGCCAAGAGTTAGATCGGCGAAGTCGA
AACTACTGCTATCACACAAACCACGATGCAGAAAAAGTAGATTTGGATGTGTGATCGAGG
TGGGGAAGGGAAGTGTAGTGGTGGTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 691>:

GNMIH89TR gnm_691

AAAACGACCAGCTTAGGGCTATAATAACTAAATGCGTTATAAAAATGAGGTGGTAGCAAA
AATAAGTTATACCGAGCTATAAAACCCAAGTTCTTGGATTCATATTTGAAAAAAAACAAA
GTTGCAGCAGGGGGAAAAGAAAAAAAACGGATTTATACAAAAGGGTGTTGAGTAAGAGAA
GTAGTCGGGGAGGAGGGAAAGGGGAGAGGGGAGGGAGAATTTGGTACTAAAATCCGATAC
TAAACTCGAAACCTAGTGGGGTAAAAAAGGAAAAACGGAACCAGGCGGAAATAACGCGAA
AGTCCCGACACGGCTCCGTCAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 692>:

GNMIH90TR gnm_692

TCCGGGGCTGACTAGGGTCCGTGGAGGGCTCTAGCCTGGGGGTCCTCCCGCGTACGCTGG
TCAGAAACCTGGTCTCTGCCAACAGCTCTGTCCTCGAGGGCACTACTCCTCTCCTATGGG
GCTTTACGGGCATAGTCGACGCCGTCACTTCTTATACTACTCCACTAACCCTCATAGTAA
GTAGACAAAAAGTGGTCTTCACCAGCGAGGGCTGGGGCTGCAATCAACCCCTAACTAGCC
GTACATTCGGCTTCAGCCTGGTCTCTCTGGGGCTTGCGGTTGGCGGCCGCCTCCTCCCCG
GGGTGAATATGGCCATCGCCGGCAATAAGGTGGGGGTTAGATCCGATACTATTACTTCCT
TTTCATTCTCTAGAATCCCAGTCTTCCCTAGTACTGCTCCAGCCCCCAACTCGGTCGTAA
GCGAGGTCGGCAGCAGAGGCCATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 693>:

GNMIH91TR gnm_693

GGTTTGCCGGCTACCTCCGAGGTCCTCTCCTGCCGCAATAGGTCCGACCCGGTCGGTATC
TTGGGCCGCAGCACCGTCGTTATTAAGATCTTCACCGACCTGGCGGTCTCCTCTACTACC
ACTCCCGTGGCGTTCTCTATAGAGGCTATCCTCGGTCTCTTGCTTAAGAAATTGGCTCTC
CTCCTGGTGGTCGACTTCCGTCGATTCGGCAGGGCTTTCCTCAAAAATAAGTTCCTAAGC
CGGGGCCGGGTCACCTGGCTGGGCACCGGCTCTCCAGTCAACGACGTCGAGGTCAGCCTC
GACTTCCCCTCTACCAGAGCCCTCGGGGTTAAATTGGGTAGATGCTCCATCACTCTCAGG
GCCAGCGTCAATCCTACCTGCCGCCACAGATTCGGACCAGACGAGGTCGCTCGCCGTACA
TTGGTCCCGGTCACCAAAAGTGCCGCCTGCGTGGGCGTCCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 694>:

GNMIH92TR gnm_694

CCTATCTTGGGTAGTCCTAGGGTTGGTGTTCTTATCTCTATACCGTCCAAGTTCTATTCG
AGTTTTTGTTCTAAGATCCTGCGTCCCGGGCTACTCGGGTGGCGGTAATTCTATTGTCTT
CCTCTCCAGAAGCTCCGCCAGAGCCTGTGGCCCAATATTTGGCACCAGGGGGAGTACAGA
CGGAGTAACCTCGGCATTTCTTGTAGCGGTCCTAATTTTGAGTAACTGCATTCAAGTGGG
CTGGAGGGTCGCTCGGGGTAGTGAGAAGTTCAATAGTTCGGGTACTAAAAACTCTCTTTC
TTCTCTTGTTGCAAATCCGGGATGGGAAAATCCAAGGGGAGAGGAAAAATCTATGTTCTA
AACTAGGGGTTTGCTCTTGCGGTTTACTTCCTACCTCTACAATCGAAGTAACGGGCAAGG
CAGGGGCTTCGGGTCCTCTCCAACGAACATCCTACTTCCCTTTAACGTTTAAATCTAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 695>:

GNMIH95TR gnm_695

CTCAAAGATAGAGGAAAAATGTAAGCCACGCAGCCTAGAGGGACCAGACAGAGATGCAAT
CAACAAAAGAAAGGGGCGGTGGGGTTGTAGCGGGGACCCACGCAGGATAAAAGCAAAGTC
TGCAGCGCAGGAGAGTCCAGCTGCGGTAACTCATTGCAAAAGACAATGGGGGGTAACTGC
TTGGGCGACGGAATCCACAAAGGGACATAAAGTTTCAGGCTCTATGGGGAATATAGTGGG
TGGAGGCTCCAGACAAGATGAACGAAGCAGAAACAGCTGAGGCCGAGGGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 696>:

GNMIJ55TF gnm_696

CCGTCCAACTCGCTCAATCAGGCTGGCACACGTGATCGTCTGCGTGCTGCGCTGGAAGCG
GCCGGTCATGCGCGACAATTACAGGTTGAGCATGGGCCGGTGACGGATAGTCGCGCCCCGC
CGAATGGCCCTGGTAAGAAAAGCCAGCCAGTTGCTGGCCGAGGACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 697>:

gnm_697

AAATCGAAATAAACCGTGTTGTAACGGGAGACCGATGCCGTCATTCGCGCGCAGGCGGGA

ATCTAGACCATTGGACACCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTrGAT
TCCCACTTTCGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACGCGGTGCAGGTTTCC
GTGCGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAAT
ATTCAAAGGTTAGCTGAAGCTTTAGAGATTCTGGATTCCCACTTTCGTGGGAATGACGGG
ATTTGAGATTGCGGCATTTATCGGAAAAAACAGCAACCGCTCCGCCGTCATTCCCGCGCA
GGCGGGAATCCAGACCTTGGGATAACAGTAATATTCAAAGATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 698>:

GNMIK41TF gnm_698

CCGAGTCCGTGCCGTCTGAAGATGCTTTGGGCAAATGGTGGAAAACCATAGAGGAATGGC
GTTCCCGAGATTGCTTGTGGTTTGACAACGGCAGCGAAATTATCAAGCCACAATATGTGA
TTCAGAAGCTTGCCGAGATTACCGGCAATTCGGCAATCATCACATCGGATGTAGGGCAGC
ATCAAATGTTTGCGGCTCAATATTATCCCTTCGAACGTCCGCGCCAATGGCTCAATTCCG
GCGGTTTGGGTCCGCAACACAGGCGCCTCTTCAAACTGCAGGTCCCGAGCCGCCTGCTGC
ATGGCTTTTTCGAGTTTGGCGATTTCGTTAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 699>:

GNMIK42TF gnm_699

CCGTGGTGTGACTGCGTACCTTTTGTATAATGGGTCAACGACTTACATTCAGTAGCGAGC
TTAACCGAATAGGGGAGGCGTAGGGAAACCGAGTCTTAATAGGGCGATGAGTTGCTGGGT
GTAGACCCGAAACCGAGTGATCTATCCATGGCCAGGTTGAAGGTGCCGTAACAGGTACTG
GAGGACCGAACCCACGCATGTTGCAAAATGCGGGGATGAGCACGATGGGCGTGGGTCTGC
CTTATGCGATTGGTGCAAAACTTGCCGCCCCGGATCAAGACGTATTCTGTATCACCGGCG
ACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 700>:

GNMIK48TF gnm_700

CCGGTTTCGGTTTTTTCCGATAAATTCCTGTTGCGTTGCGTTTTTGGATTCCCGCTTTTG
CGGGAATGACGGTCGGTGGGGTTTCGGTTTTTTCCGATAAAGTCCTGCTGCGTTGTGTTG
CTGGATTCCCGCCTGCGCGGGAATGACAGCCGCCGGACGGGAAACGACCATACACAATTA
TTGACAACCCCATTTATTGCGAAAGTCAGCCTAGGAGAATCCTCTGTAAAACCGGTCTGA
GTCTTCTTTTCCCCCGTACTCAATAATTTATCCGCCGCCTCTTTACCACCAAATTCATTT
ACAATTTGTAAAAATCGTGTCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 701>:

GNMIL13TFB gnm_701

CGTCCGACCAACCGTTCAAAACTTTCATTTTACCCGACCACGCAAGCCGCCGAACAAAAA
ACAAGGGGCTGTCCTAGATAACTAGGACAAACTTGATTTTACTAATTGTTTTAAAACGGA
CCAGGACTTTTAATTTAATGGTGGTTAAAAGGCATTTGGAATTCTTTAAAATCAAGTTAA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 702>:

GNMIL82TFB gnm_702

CCCGACAAATTTTTGGCGCATGGCTTTGATGCGGCCGCGCATTTCATCGAGTTCGGCAAT
CCATTGTGCTTTCAAATCATCATTTTCAACATCGTCGCAATGGTGTTCGCACCGTGTGA
AGCCGGGTTGGAATACAAGGTACGGATGATGGTTTGACTTGGCTGTGGGCGCGGGCTGC
TGTTTCTTCATCTTCGGCCACCAAAGTGAACGCGCCGACGCGCTCGTTGTACATACCGAA
GTTTTTGGAATAAGAGCTGTCTATCAGCAATTCTGTATTGTGTTTTATGATCACTCGCAA
GCCGTTTGCATCTTCTTCCAAACCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 703>:

GNMIM22TRB gnm_703

CGGTTACGGGCGCGAATTGTCCGCATTCGGGCTGTACGAGTTCGTCAACGTCAACACCTA
CTGGGAGAAATGACACACCCCGTGCCGCTTCATACGGTATCGGGTTTGCGCTAGAGCCGA
TTAACGGCAGTATTTGTTTACGGCGTTATTGTATTTCCGAATCAACTCATCCTTGTTTTT
TGCATTTGAATTTCCCACCGCCTTCAGGTTCATTTTTGAAATCCGGCAGTTTTCTTCTTT
GGTCTGCCGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 704>:

GNMIP07TF gnm_704

CCGCAAATACAACCCGATTTTCGACTGGTCGGAACACGACGTGTGGGCATACATCCTCGC
CAACAATGTGCCTTACAACGATTTGCCACGTAAGGATCCCTTACCGAGAATGCCGCAAAA
CACATCAATGACTATCTCGCCAAACGCGGCAAAGGCTTGGGCGTACGCTTGGGTGTGAAA
ACCAGCGGCTGCTCGGGGATGGCGTACAACCTTGAATTTGTCGACGAAGCCGATGGCGAC
GACCTGATTTTCGAAGGACACGGCGCGCGCATTTATATCGATCCGAAAAGCCTGGTTTAT
CTGGATGGCACGCAAGTCGATTACACCAAAGAAGGTTTGCAGGAAGGATTCAAATTTGAA
AACCCCAATGTCAAAGACTCCTGCGGCTGCGGCGAAAGCTTCCACGTTTAAGGCATAAAA
ACGGCGGGACCGTATCAAAACCGTCCCGCCATTTTTACGCTTACTGCCTGTTGTAGCTGC
CTTTGCCTTTCCTTTTCCGTTCCACCTTGTGCCGGAACAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 705>:

GNMIP26TR gnm_705

GACGTCGAGGTTGATGGAGTGGCTGTACCCGACCAGCACCAGAACCGGTGCGGTTTCACC
GACGACGCGCGCGATGGACAACAAGATGCCTGACACGATGCCCGGCATCGCGATCGGGGC
GACGATCCGCACGATCGTCATCCATTTCGGAACGCCTAACGCGTAGCTGGCTTCTCGCAG
TTCATCGGGCACCAACCTGAGCATCTCCTCGCCTGCCCGAACCACCACCGGCAACATCAG
CAGGACCAACGCCAACGCCACGGCAAAGGCGCTCTGCTGAAATCCTATGGTGGCGATCCA
CAGGCTGAAGACGAATAACGCCGCCACGATAGAGGGCACGCCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 706>:

GNMIP64TR gnm_706

ATGGGCGTGGCTTTGGCGCGGGCGTGCCGTGCCGCCGGTGCAGAAGTCAGCCTGATTCAC
GGACAGCTTCAAACCGCGCTGCCTTTCGGCATATCCGATACGGTTCAAGCCGTCAGTGCC
GAAAATATGCATCGCGCAGTGCATCGTTTAATCGACAAACAAGATGCTTTTATTTCTGTT
GCCGCCGTCTCAGACTATAGGGTTAAGAGGAGGAGTACTCAGAAATTCAGGAAAGATAGA
ACTGCCAAACCGTTATCCATCGAATTGGCTGAGAACCCCGAGATTTTGGCTTCTATTGCC
TCATTAGCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 707>:

GNMIP74TR gnm_707

AGTGGGTGTCGATATTTACAACTTGGGTAACTTCACCCGTTCCAACCAGTCTAGCAATAT
CAATCATCGTCCTGCCGTCAAAGCCGGCGATGTTTTGCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 708>:

GNMIQ34TF gnm_708

CCTGTCGTCTTCGGCATCGCCAAAGAAGGCTCGCTCAAACGCGTCATTACCGGCGAAGAC
GAGGGAACGCTGGTTCACTGCTGATTGACCATAGTGTCGGCAGATATAGTCGCATATGGG
CTTCAGACAGCCATTTATTATATGGAGATTATAGTGGACATCCCATGGCATCGACATCAC
CTCTGGTGGCAGCATCCACGCCTACCCCACCGCATTCGATGCCCCCAAAGGCAGCACTAA
CATCGAGGCTCCGGCGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 709>:

GNMIQ67TF gnm_709

AAACTGACGTTTGTCTTTCCAGGATGAGGTAGAACCATGATTTATCTGTTTACAGGAAAC
ATGGGGACAGGCAAAACCTCCCGCGTCGTCTCTATGATTTTGAACAACGAACACGGATTG
TTCAAAATGAAATTGGCACACGGCACATATGTAGACAGACCGCTTTACTTCTGCCATATC
GACGGATTGGATAAACCGCAGTTGAAAGCCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 710>:

GNMIW65TR gnm_710

TCCATCGGGTCGAGCGACTCGTCCAACTATGCCGCCTTCCTCCGCTACGGTATCCGTACC
AGCCTGCAGTCCAAACATGTCTTGCACAACTTGCGGCTTCCGTTGCACAAGCCGATAACC
CCTTCAGTTATAGTGGACAGCAACCGCTTTTTGAAAGACAGCAGTGATATTGTGTTGGAT
TTTCCGTTTAAAGATTGTGTGTTAAATGGCGGACAAAGCACCGAGGAAGGCGAAGAAATT
TATTTTAAACGCAATAACAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAG
CCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAATTATACACTAAATTAACCCG
AGAGAGACAAGAAATCTTTTTAATCAAACCCTTGCTTTTGATGAAATTGATCGGCTTTT
TGACGCACAAGCATTCTCAAAATTCTCTCGCTATACCGCAGACGGCAAGCAAGCCGTTTG
CGCAAATCAAACGACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 711>:

gnm_711

CAGTTGGCATTGTTAGATAATTTGATTCACAAATGGGCGGAAACTGGTTCGAACTGGGGC
AAAAAATCACCAATGyGACTTTCAACCGAyTGGACGCAAACGGCTAATGAAGGTATTGCA
CTGACACCATCCCAAGTAGCACAACTAAAAAAGAACGCTTTAGTTTCCCTTTCTGATAAA
GCTAAAGCAGCTATTGACGCCGCCCCGCGACCGCATTGCCGTGCTTGATGCnTACACGGGG
CAGGATTCCAACACACTCTATTACATGAGCGAGGAAGATGCGCTTAATATCGTCAAAGTA
ACCAACGATACATACGACCATCTCGCCAAAAACATCTACCAAAACCTGTTGTTCCAAACC
CGTTTGCAGCCATATTTGAATCAAATCAGTTTCAAAATGGAAAATGATACGTTCACTTTG
GATTTAGTGGTCTTGTTCAAGCATTTAACCATGTCAAAGAAAGTAATCCGCAGTGGTAC
CGAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 712>:

GNMIX74TR gnm_712

TAATGCCTGTAAATCCATGTCTTTAACGGCAGCTCTGGCAGAAGCGGCCACAAGTTCTTG
TTCGACCGCAAAGCGTTTACCTCCGCCATGCGATGGAATACCTGTCAGTGTCCCGCAGGC
GGATAAAATAAAAACTGAAAAAAGAATAGGTATCAGCAGCCGTGCTTGCATAGATTTTCT
CCTTTGATGAAAAACAAATTGTATCAAAATTGTAAATATAGTGGATTATCnGTCGGCGTA
ACGCTATTGGACGGTTCCCGTCATGCCCCGAATCCAGTGAAGGAAATTGAAGTGGCCCGC
GTGTTACAATATATCGGACTGCAAAGCGGTTCGACCACGGAGGCAGCCGTCCGTTTTATG
CTTTAGTGTATGCGGCAGCAGGTTTTTTGGGACGGCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 713>:

gnm_713

CGTACGGCTTTCTCTAAAAATACCTAAACCGTCATTCCCACGAACCTACATCCCGTCATT
CCCACGAAAGTGGGAATCCAGGACGAAAAATCTCAAGAAACCTTTTTACCCGATAAGTTT
CCGTGCCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAGCTATCCATACGGAAA
CCTGCACCGCGTCATTCCCGCGAAAGTGGGAATCCAGAACGTAAAATCTCAAGAAACCGT
TTTCCCGATAAGTTTCCGTACCAACAAGGCTGGATTCCCGCCTGCGCGGGAATGACGAAG
CCATCCGCACGGAAACCTGCCGCGGGCATTTCGGATATCGTGGTTCTGGCAGCTTGGCGG
CAGGATGCGGAAGACTTCAACGAAGCCTATTGCCGCCATGTACGCCGCAAAATGAACATA
CCGGAACATTTGGCATATTTTGCCGGAGAGCCGATTATGATCAGGCAGAACGACTACGCG
CTTGAACTGTTCAACGGCGACATCGGACTGATTATGGAAGATGTCGGACGGCAGGGCAGC
CTTGCCGCCTATTTTGCCGATGCGGACGGATTTAAAAAGGTAGCGGTAAGCTGCCTGCCC
GAATTTGAACCCGCATTCGCCATGACCGTCCACAAAAGCCAAGGTTCGGAATACCGGGAA
GTATGGCTGCTGCCGCCTTCCGCCGCACCTTCGGACGAAGGGGACGATGCATTGTCCGGA
TTGAGTAAGGAGCTGTTATATACCGCCATTACCCGCGCGAGAGAGAAGTTCGTATTCTTC
GGCGGGGAAGAAGCCTTCCGGCAAGCTGCCGCCACCGTCAAAACGCGTCAGACGGCATTG
GGCAGTATGCTCGAGCGGGTATTTTCACAAGAATAATCCGCCCGAATGCCGCGCCGCCGC
CCCTTATGCCTTTTTCAAACGGTATAGGAAAGTGGTTTCCCGGGTTCGCGCAAAAGCAAG
CGGATCGCTCGGATTCGCGGCTTTTTTGTGCTTCGGCTTGGTTTTCATCATATCGGCAAC
ACGCAAACCCGCCTGAGCAAATGCCTTATCCATGAAAATCGGATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 714>:

GNMJD95TF gnm_714

CGCTGCGGCATAACCTTCCGCCTTGTCGACGGCAGTATAGGCAGCCGTGTTGACAATGGC
GTCGGGTTGGAAACTTTTGACCATGTTGCAGACGGCATCGGCATCGGTAATGTCTAGGGA
TGCGGAATCCGTCGCAATGGTTTCCCAGTCTTCCGGAAGACGGTCGCGCAGGCAGCGTGC
CAGTTGGCTTTTCGAGCCTGTCAATAGGATTCTCATGAGGTATTTCCTTTGGTAAAAGTG
TATTGTAGGACTTGCTGTCGGTATTATAGTGCCAAAATTTTGCCGCCTGTCGGGCAACCA
ATAAATCGACTTTGCCCAGTTTGGCGGCAGCGGTAACAGCATGCAAAGTGGTATGATTCA
ACTGTTTGTTGTCGTGTTCGACAATAATCAATACACTCATTTCAGCCTCCTCAAATCACT
TTGGCTTCGTTTTTCAATTTTTCAACCAATTCGGCAACGCTTGCTACTTTTACGCCTGCC
TGACGCGCCTTAGGTTCGGCAAATTTCACCGTTTTCAAACGAGGTGAAATGTCGGCAACC
AAATCGTCAGGAGTCAGTTTTTCCAAAGGTTTTTTCTTTGCCGCCATGATATTGGGGAGT
TTGACAAAGCGCGGGTCGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 715>:

GNMJE78TF gnm_715

GGGTACTAACCGATGACTTTGACGAACGAAGCGCGTTCGCCCAAGCGTTCCAATGCCGTC
TGAATCTGCGCGTACCGGCGGTGTCCTTCGATGTCGATGAAGAACAGGTATTCCCACAAA
ACGGATTTGCTCGGACGGCTCTCAGACTAGGTCATGGAAATACCCGACTCCGTCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 716>:

GNMJE88TF gnm_716

AACCGCCCAAGCCATGATTGCCAAACACATCGACCGCTTCCCGCTATTGAAGTTGGACCA
GGTGATTGATTGGCAGTCGATCGAACAATACCTGAACCGTCAAAAAACCCGTTACCTCCG
AGACCACCGCGGTCGTCCCGATCGTCCACGTGGTGTCCATGTTCAAAGCCGTTCTGCTAG
GACAATGGCACAACCTCTCCGATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 717>:

GNMJH15TF gnm_717

CCGCATAATCGAGTGTACCCATTTCCTGCTTGCCATCGGTTTCAAACCCGCAAGACAAGG
GCGAACCGCTCAAAGTCGCCGCTTCACATCTTCCTGCAGCCGCCCGCCGCGACATGAATG
TCTATCTTTCAGGCTGGCAACTGATTGACGGTATGGTAAACGTCTGACGCATCGTCCACG
ACCACTAAAGCGAATGTTGCGGCTTCGGCGGCACATTCTCCGTCAAACAAGCCGATATTT
CCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 718>:

GNMJJ79TR gnm_718

GTATGGGTTTTCCGGCGCGGGGAAAACGTCAGGCATCGCGCCGTATCGAAATAACCGGAC
CCGCAGACCCAACGGCAGTCCTGAACGACGACCTCGTCCAACAAAGCCAGGTCTTCCTGC
AAAGCGCGGACATTGTTCAGCACATGCCGCCCGAAATGGGGAATCTGCGCCGAAGGTTCG
GGCACAGTACGGTGCCGGTAGCGGTTTCGCAAATAAGCCGTATCGGTATTGCTTTCAGCC
TCGATATTCGGCACAGCGTGTTTTTGGGCATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 719>:

GNMJJ84TF gnm_719

ATTTTGCTCAATATTAGGAAGGTTTTAAGCAATTGAAAATTTGTTGGCGCATTTTTATGC
GTCAAATTTCGTTAACAGACTAGTTTTGCAAAGGTCTCTATATTGTTCGATATTTTTGAA
GACATCGATTTTTTAGGGAAACGATTGTTTACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 720>:

GNMJM49TR gnm_720

CGTTAAACGACGCAGCCGGCACTGCGCATTAAAAACGTGCCGATTGTAAACGCCGCCAAT
ACCGCCAAATCGGGAATGCCGTCTGAAGCCAGCCACAATGCCCAGTAGGTCGGCCACAGT
AAAAGCAGCGTCCCAATGGGCTTGTCCGCCCGCATCAGGCGCAGGTACACATCCAAACGG
TCGGACAGGCGTAAAAATAAAGGGGATTTAGGATTCATATTGCCGCGCAGCTTGAAAAAA
CGGTATTTTAGCCGAGAAAACGTTTCAGTTCGGGCAGAAAATAGTCGGTAAACACGATTT
CGTCAACGTGCCCGCCGGCTCGGTAATGCTGCGCGTGTCATCGAAAATATCCTTGATCGC
GC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 721>:

GNMJN57TR gnm_721

CGGCTGCTTCTATCTTTGATGCTCCACCATAAAGGTATTGCCCGAAACCGGCGGATGGAG
GTTTTGTTTTTCTGCCGCCGCCCGTGATCGCTTCGTGGTTCGCCAAACGCGCCTGTTGCA
GCCTCATTTGCGCATAATCCTGCTCCAAGGCGATTTCCTGTATTTTCGCCTTATCCAAAG
CTGTGATATTGAGCCTGTACTGGTTTTGCTGCATCACAACGGCAAAAGCGGCAACGCACA
CCGCATCCAGCAGAAGGAAATTCACTTTGTTCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 722>:

GNMJO71TR gnm_722

CCCATACTATATGTCTTAAGTGAGGAATACATGGTTCATTGATGAACCCAAATTTGACCC
TTGTAGCAGATGCTGTCAGTGCCCCACCCATATGTTCTTTGCCTGTCAGACAACGATACA
GCCCTTGTCGGTACGAATATCGTCTATGCCGCCATCCACAACTTCGGCGGTATGGCGGGG
CGCAACCGCAAAGTTCGGATTCCGCAACGGGAATTTTTGACGCTGACGGACGACGACAAA
CAGGCTTTGATGGACGATGTGCAGGATTATTTTTCGGGTCTGATACCGTGAATTTATAAA
ACCCTCAAAAACGCGCTTTTTAGCGCGTTTTTTTATGCGGGTAATACAAACCCCTGCCCA
AGATATAAAAATCAATCCTAGACGCTTCGAAAAAGCCCCTGAAAACGATTAATTGTGTAT
CGCGCGGACAGGTTTTAAAAAAAATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 723>:

GNMJQ51TF gnm_723

GCTTCATCGTCTTCATCCCAATCTGACCCCAAACATTCGCCTTTTGGTTTGACGTGATGA
CAGGTAAACATACCTTTAATTCGGTCTTCACGGGCTTGGTTCGGGCTGTATTCGACGTTG

AAAAAGTCATTTGCGATGTCAACGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 724>:

gnm_724

CAATCCGTTAGCGAGGTGCCGCCGGCTTCCATTCAGGTCGAGGTGGCCCGGCTCCATGCA
CCGCGACGCAACGCGGGGAGGCAGACAAGGTATAGGGCGGCGCCTACAATCCATGCCAAC
CCGTTCCATGTGCTCGCCGAGGCGGCATAAATCGCCGTGACGATCAGCGGTCCAATGATC
GAAGTTAGGCTGGTAAGAGCCGCGAGCGATCCTTGAAGCTGTCCCTGATGGTCGTCATCT
ACCTGCCTGGACAGCATGGCCTGCAACGCGGGCATCCCGATGCCGCCGGAAGCGAGAAGA
ATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 725>:

GNMJV83TR gnm_725

TTTAAAATGGAAATTTGAACTTTTATCTCACTGTTGTTAAAACGCCGTTCGTACCCCTTT
AAATACAGCTCAAAATGCGCTTTGGGAATGCCGTCAAACTTGCGTAAATGACGTTTTGCC
CGGTTCCAAAAGTTCTCAATTCCATTGATATGGTTTTGTCGTTCAGCAAAATAACTTTCA
TCTGCTTCTACTTCGCCATCAAACATTTCCAAATGCGGACTGTTTTGATAAATAAGTAAT
CGTAAACGATGAAAATAATAGGCTGCGGTACTTTTATTAACGCCTACTAACTCTGCTGTC
GTTCTTGCAGTTACACCTGCGACAAACAGTTCAATGAGTTTATTTGTTTATACCGGCTTA
GACGACTTTTTCTCATAGGGGCAACTCTAACTTAATTTGAATTTCCCTAGTTATCCCTAA
AGGGGGGAAACCCAAAAGGGGGCCCCCCCCCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 726>:

GNMJW65TF gnm_726

CGAATTTGTCGGCGGCGGCGCGGCAAAATCATACTTTGCAAAATTTAACAATTTGCAGGG
GCAGAAAACAGGAAGCTTTCCTTTTTCGTCGGAAAATCCTTATTTCACCGCCTTGTAGCC
GGAGCCGGTCAAAAGGCAAAAAATTTACCCGTTTTTTATCGGTAAAGAATTATCAGATAA
AACAAATATTATAGGAAAAATACGACAGGCGGGTTTTATCGCGCATTGCCTGAAACTGAA
AAATACAACCGTTGTCAAGACTGGAGAAAATGCCAAAAATCCACTATATTGTCTGCCTTA
ATTTATTTGAAAAGACTGTGTCTTGAATATCAAGAGTGGAAGAGGAAGCGATGAATACAC
CGACTGATTTGAAAGTAACCAAACGAGACGGAAGATTAGAAGCCATTGATTTGGATAAGA
TTCACCGTGTCGTCACTTGGGCGGCGGACGGATTGGAAAATGTTTCCGTGTCGCAGGTCG
AGTTGAAATCGCACATCCAGTTCTACAACGGCATCCGCACCGACGACATCCACGAnACCA
TCATCAAAGCCGCTGCCGATTTAATTTCGGAAGATACCCCGGACGGTGATGCTGCCAACT
TACTGATTTAGTGTATGATGGTGTTTTTGAGGTGCTCCAGTGGCTTCTGTTTCTATCAGC
TGTCCCTCCTGTTCAGCTACTGACGGnGTGGTGCGTAACGGCAAAAGCACCGCCGGACAT
CAGCGCTATCTCTGCTCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 727>:

GNMJY95TF gnm_727

CTAGAGATCCCTGGAAAAACACACAGCCGGCACACAGACTATCTCGCCTACCGCGACGCG
ATTGCCAACAAACTGCTGGAAGTCCGTTTCGCCACTCGGCAAATCGACAGCCTCAGCAGC
AGCCTGCGCGGGAAAGTAGAAAACATCCGCAGACTCGAACGCGAAATCCGCGACATCTGC

CTCGACCGCGTCCATATGGGACGCGACTACTTCATCCAAAACTTCCTGCCCGAAATCACC
AATCTAGAATGGATTGAAGAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 728>:

GNMKA52TF gnm_728

GGTCAGCCCGGCAAGGGTCGAATATCTGATCGATATGCCGATGGAACTGTTGCAGAAGGC
GGAGGGCGGCGTTTTGTATGTCGGCGACATCGCCCAGTACAGCCGCAACATCCAAGCCGG
TATTGCCTTTATTGTCGGAAAGGCGGAACACCGCCGCGTCAGGGTGGTCGCATCGGGCAG
CAGGGCGGCAGGTTCAGACCGCATTGCCTGCGAGAAAGGTGGCATGATTGCTGTCGGCAT
CGGTCGTCCGTATTCCGCCGCTGCGTATGCAGCATGAAGACATTCCCTTCCTGATACAGG
GGATTGCCTGCAATGTGGCGGAAAGCCAAAAGATTGCGCCTGCCTCATTCAGTGAATAGG
CACTTGTCGCATTGCACACGTTCAATGGCTGGCGTTCTATTCGACCAACTGCAAAGCGTC
GTTGCAACGCTGTTGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 729>:

gnm_729

CATTTCCATACCTATGAAATCAATAGCAGGATTTAAGTTCAAGTTCAGCTCCAGATCTTC
TAAGCTGGAGGACAAAAAGGCGAAAAGATATGTACTGGTTTCGCCTCTTGTTTGCTTCTT
GCTGATCAAGAACCTCCCCGATGTATTCGCAAACAAATGTGCCACGCAGTATATGTTCAC
AAGCTCGCAATCCCCATCCCTGTTGATCAATCAGTTGGATATTGGAATTGAATCAAGACA
AATGGGTTAAAGACAATAACTCAAAAAGGATCACACCTTGCTTTCAGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 730>:

gnm_730

AAGGGGATACTAGAGCATACTCAGTGaAGAAGCAAAGAAAATCAACAGGTTTCAGTAGAA
AAAAATCGAAACTGGGATCGTAAGTTTACCAGGAATTGACGAAACCCGCGAATCTCGTTA
CTCTCTTCGAAAGCCCCAAACACGAAACAGTCTTGTCAGTTGCTCAAGCTCCGTGTTTCC
TGAGAAAAAAACCCATAACCTAATCAACAACCCAATTGTTAAAAATCCATCTTTATGAGAA
ACAAAGAGAAGCTAAATCAGAGAGGAAAGTTGGTTCATACCTCTGAGTCTGACCAGAGAC
GACGGTAGCAAAAACGGAAATTTGATGCGAGAAAGCCGAGAGGGTTTTTCTTATTTATTT
TTTAGTCCTTTAAACCGACCTTTGACAAAAAAAAAAACGACTTTGTGAAAACGGGCCGGTT
CATATTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 731>:

GNMKV51TF gnm_731

TCGTGGTCGAACCCTACATCATCCGCCATGACGTTCCGATCGGTGAACGCAGCAACTACC
ACCTCTCCAGACATATGAACTTTATACGGCTTGGGCGGCTGCGGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 732>:

GNMKY49TF gnm_732

CAAAATCGAAGGCGGGTTTGTCGTGTTACTCGGCGTAACGCATAGCGACACAGAAAAAGA
TGCACGCTATATCGCCGACAAAATCGCCCATTTGCGCGTGTTTGAAGACGAAGCGGGCAA
GCTGAACCTGTCTTTGAAAGATGTCGGCGGCGCGGTGCTGCTGGTGTCGCAGTTTACGCT
TTATGCCGACGCGGCAAGCGGGCGGCGGCCTTCGTTTTCCCAAGCCGCACCTGCAGAACA
GGCGCAGCAGCTTTACCTGCGAACGGCGGAACTGTTGCGCGGACACGGGATTCATGTCGA
AACAGGGCGTTTCCGCACGCATATGCATGTCTCTAACGTGCTGAAGCACCAAGTGAATCG
GTTCCGTACTATCTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCA
CTATAAAGACCGTTGGGCATCTGCAGCCGTCATTCCCGCGCAGGCGGGAATCTAGTCTGT
TCGGTTTCAGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 733>:

gnm_733

TATGCTTGGGACAATAGCGGAAAAACACCGCCTTGCGTTCGGCAAAACGGGAAAACCGCA
AGGCGATGTCCTGATACGGATTCGGTTTCTGCTCGTGCGGCAAAACGATGTTCAGCCCCA
CCGAAACCGACTTCCCTGCAAACGCGCCCTTGTTTGCCGCCTCCATAATCCCCGGCCCGC
CGCCCGAAATGACGGCAATGCCCGAATCCGACAGCCGCCGCGCCAGACGGCAGGCGAACG
CATAATCCGCATGATTCTGCGGCGTGCGCGCGCTGCCGAAGATACTGACTGCCGGAAACA
CGCCCGCCAATGCTTCGTCTGCCTGCCTGCGTTCGGCATCATAACGTGCCTGCTCCGGCA
CACGGTTTGTATTCTCCATTCCATCCTCCGTTCAAAAACAGCGATTGTACACCGTCAAAA
ACGTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAAATAG
TACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGG
CGAGGCAACGCCGTACTGGTTTTTGTTAATCCACTATCATATAGATTTTTATGCCATTTG
GTCAGAAACAGCGAAGACAGGCAGGGAAACGCCTTCAGTTCCATCGCGTCTTCAAAATCA
TCCCAAACATCGCTCAAATTCTGTTTGGATATGCCGTATTCCCGTCCGGCAAACATCACG
GTCTTTTTGCTTTTGGCGGCTTTTTTGAATGCCTTTCTCTGTTTTTCGGGTATCTGCTGC
CATCTCAACTGACGGTACACGTCGTAGCCGTCGCCCCAAAAAGAGGCATACCGTTGCGTG
TCTTCGCCGACCAGCGGCGCGGTATTCCCAACCCGTACATATCCCGTCGGCACGACGGCA
CTTGCCTTATATATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 734>:

GNMLC88TV gnm_734

AACTACACAACCACGATTTAGCGAAAGGTATAAAAAATGCGGGTCAGAATTTAACATCAA
TGCAAACGCTTGATGAGCATAATAAACCATTGATGACTGCGCATTTAAAACGAGATACAC
TTAATGTTACATTATCTCGTCAAACACTAATCAGTATTATTCAGTCTTATGTACAACAAG
ACAGCATTTATTTAAAACATGGCGTAACTAAAATAGATAATAGTAATTCAAAAGTCATTC
TTCATTTCATGGAACAAGAAAGTGAAGCCTTTGATTTATGTATTGGTGCAGATGGCATAC
ATTCAATTGTTAGAGAAGCTATTGATAGCCAAAGCAAGGTTCAATATCAAGGCTATACAT
GCTTCCGTGGGCTAGTCGATGATATTCATTTAGATGAAACGGATGTAGCTAAAGAATTTT
GGGGCAAACAAGGACGCGTTGGTATTGTGCCATTAATTGATAACCAAGCATATTGGTTTA
TCATAATCAACGCTAAAGAAAAAGATGTCAAATACCAATCATTTGGTAAGCCACATTTAC
AAGCACGATTTAATCATTATCCCAATATTGTAAGACAAATATTAGATAAACAAAGTGAAA
CAGGCATTATATTAAACGATATTTATGATATGAAACCACTAAAATCTTTCGTTAAAGAGC
GTACTATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 735>:

GNMLC88TH gnm_735

ATATGAGCGTCGGAGTTATAACGAAAGACATTTATACAAAAGAAGACGAAAAGATCTTAG
TTAATACAGGTGTCTTACCTGAAGATAGAATTATTGGTGTAGAAACAGGTGGTTGCCCTC
ATACAGCAATTCGTGAAGATGCTTCTATGAACTTTGCTGCTATTGATGAGTTATTAGAAC
GTAATGATGATATTGAACTTATCTTTATTGAATCTGGTGGCGACAACTTAGCAGCTACAT
TCAGTCCTGAACTTGTAGATTTTTCAATCTATATTATCGACGTTGCTCAAGGTGAAAAAA
TCCCTCGTAAAGGTGGACAAGGTATGATTAAATCAGACTTTTTCATCATCAATAAAACGG
ATTTAGCACCACATGTTGGCGCATCGTTAGAACAAATGGCTGAAGATACAAAAGTATTTA
GAGGCGACAGACCATTCGCGTTTACTAACTTAAAAACAGATGAAGGTCTTGATGAAGTGA
TTAAGTGGATTGAACGAGATACTTTACTTAAAGGATTATCATAATGTCTCAACAAGCTTG
GACAGGTCAACTTGATTTAACCGTATTTAATAATGGAAGTCGTTCCGTTGCACGTGATAT
CTTTTTTGGAAAAGCATTAAAAGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 736>:

GNMLC90TH gnm_736

AACAATCATTATGAACCCAAACCCCTTCCGTTTCCGCCTGACTGCCCTTGACGAAGTACG
TATGCCAATCGGCGACGGTCAAATTGTAAGCTTTGACCGGCTGCTGTTTGAAGGTAATGT
TCTGAACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 737>:

GNMLD05TH gnm_737

GTACGGCGTTACCAACCTGCTGCTGCTGGGCAATTTTGCTGCCGCACAAAATAAAATTAT
CAGGGAAAGATTGTAAGGCAGCTAATTCACTAACGGTTAACGCCCGATTCTGTTCATATT
GAAAAACTTTGCGCATATCTCCTGTAATACAAACGGCTGGTTTTGTTGCTGTTGTCACGG
ATGTATTTACGGATATCACCTGTTTTCGGACGTAATGGTTCATGAATATCGTTACGGTTA
CCTCCATTTTTAACAAATGCCATTTTTTCTAACATTTGTGCCGAATGATTCATATCTTCA
TGATTTGCAACGTGTGGATTGCTTTCGCCATCATCCAGTTTTGGAAAATGTCCTATTGCT
GATCCAACAGTCTGATGGGAAATCTGCAAATGTTCAGGAAATGAAATTTTGCCTTTATCC
CTCCTCCCGATAAATATCACTCGGCTACTTATCTTAGGAACACCGAAATCGGCTGCACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 738>:

GNMLE03TH gnm_738

TCGACATTGCCAACAGCGTCCCGGGTGTTTCGGATAATATGACGGACAACGGCAGAACCG
ATAAAGCCCGCGCCTACTGGCAACAAGTGCCGTCTGAACAGCACGAAGCCTTCCGTTTCC
ACCATATTTCCACCGATGAAGTCTATGGCGATTTAGGCGGCACGGACGAGTTGTTTACCG
AAACCGCGCCCTACGCGCCGTCCAGCCCCTACTCTGCCTCTAAAGCGTCCAGCGACCACC
TCGTCCGCGCGTGGTTGCGTACTTACGGCTTGCCGACCATTGTAACCAACTGCTCCAACA
ACTACGGTCCTTACCATTTTCCGGAAAAACTCATTCCTTTGATGATTCTGAACGCGCTTG
ACGGCAAACCGCTGCCTGTGTACGGCGACGGTATGCAAATCCGCGACTGGCTGTTTGTCG
AAGACCACGCGCGCGCACTGTATCAGGTTGTTACCGAAGGTGTTGTCGGCGAAACCTACA
ATATCGGCGGCCACAATGAAAAAGCCAATATTGAAGTCGTCAAAACCATCTGCGCCCTGC
TGGAAGAACTCGCTCCCGAAAAACCGGCCGGTGTGGCGCGTTATGAAGATTTGATTACTT
TCGTACAAGACCGCCCCGGCCATGACGTACGCTACGCCGTCGACGCAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 739>:

GNMMC45TR gnm_739

CGCGGGAATGACGAATCCATCCGTACGGTAACCTGCACCACGTCATTCCCACGAACCTGC
ATCCCGTCATTCCCACGAAAGTGGGAATCTAGCTTTTTGAGTTTCAGTCATTTCCGATAA
ATTGCCTTAGCATTGCATGTCTAGATTCCCGCCTGCGCGGGAATGACGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 740>:

GNMMC79TR gnm_740

GCGGCAGACAAGAATGGCTCGAGGCGTTGCGACAGGCCCTGCTTGCATCTAAAATCATTT
CCTACGCACACGGCTTTATGCTGATCCGCGCAGCGGCCGAAAGCTACGGCTGGGATTTGG
CCTACGGCACCACTGCGCTGCTGTGGCGCGAGGGGTGCATCATTCGCAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 741>:

GNMMD20TF gnm_741

ATCCCCGAGGAATCTAGGTCTGTCAGTGCGGAAACTTATCAGGTAAAACGGTTTCTTGAG
ATTTTGCGTCCTGGATTCCCACTTTCGTGGGAATGACGCGATTAGAGTTTCAAAATTTAT
TCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 742>:

GNMMD36TF gnm_742

ATCCCCAAAATTTTTTTGAGTTTCTCAAAAGCGATATGATTAGACTGTTGAGAGGTGAAA
GTAAAACAACAGACTTTCAATGGCCGCAATTTGATGAATAGCAGCAAGCTGTAGCCTGCA
TGAAACCTAAAATCCATGCGTAAGGTGTGTGCTTCAGCACGCACGCGTTCCATGATTTAC
GGCTCAATGCCGTCTGAAAAGCTCACATTTTTTCAGACGGCATTTGTTATCTAAGCCAGT
ATTCAGCTTCACTATATACCGGCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 743>:

GNMMG74TF gnm_743

GCCAACCTTTATCGTAAACATATTCAAACTGATAGTTCCCGAAACTCTCGATATCCGAAC
TAAAAAAGAAGAAGAGCAGAGTAAGAGGCAATAGAGGAACAAGTAAGAACAAAAATAGCA
AAATTTTCAACTTAGTTAACAATAGTTACCTCTCCTTTAAATTCAATCCTGAAAGGTACC
CCTTACCCGGGGCAACCAATTATAGTTCCCATATTTCAAAATATGGTTTTAACATTACTT
TTTTCCCCCCCCAAGGGAATGCATTTTAAAATCAGGCTTTTCAGGTGCAAACCGATACTT
ACCATTACCATCTTTAACCACAGATATATTTCCAGGTATAGCCCAACGTGAAAAATCGGA
GTATTATATACAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 744>:

GNMMH29TR gnm_744

CGTATCGACATTTCCATTAATCTCGGATTCGCTCGCGGGACAGAGCAGTGACGATGGAGG
AGCGAGCCAGATGCGCATCGTCGCCAACAGATCTGCAACAACTGCGATCGACCAAACGCG
ATTTGTCTCCGCCACGTCATACCGGCTGATCCAATTCCGAAGAATACAGAGAGCATCATC
CTCCACCATCCGCACGAGTATAAAGCTTGTGCTAAGGAAGGAACCATTGGGAGGATATGT
AACTACGGCGCTTAGGAGCCATTGAACCTGACGGTGAATAAATCGAGAGGAAGCTTATTA
GTGTTTAGAAAGAGATGGTGAGGTTCCAATCTAACTCAATTGATGGGTTAATTTGTTGTT
TCTATTCCGAAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 745>:

GNMMH29TF gnm_745

GCGAAAGAACAGAAGTCATTGATGAGAACAGGTTTGTCGCGTGTTAAAATAAACGAATTT
TATGTAATAAATACTGGTATCTACATAGAGTATTATAAAACATGCGTGTGATTAATCTAC
GTAGGTAAGCAGCAAATTCAGTCAAAAGAAGAAACATCATCGACCATCTCTAGTGAATTA
CTGAAAACTGAAGAAATTATCTCATCCCCGAGTCAAAGTGAACCGTGGACTGTACTTGCT
CATAAGAAGCCTCAGAAGGACTGGAAAGCTTACAACCCAAAGACAATGAGACCTCCCCCT
CTACCAGAGGGTACCAAATGTGTGAAAGTTATGACTTGGAATGTTAATGGACTGAGAGGA
TTGTTGAAGTTTGAGAGCTTCTCTGCTCTGCAGCTTGCCCAAAGAGAAAATTTTGACATC
TTGTGCTTGCAGGAGACTAAACTCCAGGTCATAACTTTAGACCCTTCTTAAGTTGTTTCT
GCTCTATATTTTAAACACAGCCAATCTAGAAATCTCTTGTACTAAAGACATACGCAnACT
TATGACAGGTGAAAGATGTTGAGGAAATTAAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 746>:

GNMMH47TFB gnm_746

TTGCTGTTCAAGCTGTTTTTCAAGATTCTCGTAATATTCGTACATATAATAAGGGTCTTT
GTACGGTTTGAATGCGGTCTGTTCATGAATGGCTTGAGCTTTCAAAAAGGCGCAGTCGTA
CGCTTCGGGAGCCAAAGACTTGGTCAGCTTGTGATGACTCTGCTCAATCAGTTCAAACAG
TTTGGCTTTGTCCAATTCGGGAAAAATGAATTTCAGACCGTTTGCCGCACGTCCGAACTG
TTTTTTTACCCATTCACAGTATCTGTCGGCTGAAATCGACTTATCTTCCTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 747>:

GNMNA66TR gnm_747

GGTAATGATGAATGATAGTTTTACAAAAGTTTCGGACTACAATTTATACGTTTATAATAA
TAACAATATCCATCAAAAAAATGTGATTTTTCTTTTTTTAAAAGTTGCATCTTGCCATTC
TTGTAATCACATTCGTAATATTCAGCATTTTTCAAATCTGAATCAAATAGATATTGAGGT
AAAACATTCCCTTCCTTATCTAGTTCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 748>:

GNMND11TR gnm_748

GGCGCGGGACCCATGCTTTGGATGCGGTACAGCCGTCGCGTTATGTTTTGGGGTTCGGAT
ACGACCAGCCTGAGGGGAAATGGGGCGCAAACATTATGCTGACCTATTCCAAAGGAAAA
ACCCTGACGAGCTTGCTTATCTGGCAGGCGATCAAAAACGATATTCGACAAAAAGAGCGT

CGTCTTCTTGGTCGACGGCAGACGTTTCCGCCTATCTGAATCTGAAAAAACGGCTGACCT
TGAGGGCGGCTATCTACAATATCGGCAACTACCGCTACGTTACTTGGGAATCCTTGCGCC
AGACTGCGGAAAGCACGGCAAACCGGCACGGCGGCGACAGCAACTATGGAAGGTATGCCG
CACCGGGCAGGAACTTCAGTCTCGCGCTTCGAAACGCGGACGTTGTCCGCAGTGGAGCAT
ATGGACGGCATAATCGTTTAAAACGGTTTGGnGAAAGTGTGAAACCAATACGTCGCAAGG
TAnCAGCAAGCTGTCGCGTTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 749>:

GNMNE46TF gnm_749

TATCTGAAAGTCCGAGATTCTACATTCCCGCTTTCGCGGGAATGACGAAAAGTGGTGGGA
ATGACGGTTCAGTTGCTACGGTTACTGTCAGGTTTCGGTTATGTTGGAATTTCAGGAAAC
TTATGAATCGTCATTCCCGCGCAGGCGGGAATCTGGTATTTCAATGCCTCAAGAATTTAT
CGGAACAAACCAAAACCCTTCCGCCGTCATTCCCACGAAAGTGGGAATCTAGAAATGAAA
TGCAACATGAATTTATCGGAAATGACCGAAACTGAACGGACTGGATTCCCGCTTTTGCGG
GAATGACGGGATTTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAGGGAATGACGGGATG
TAGGTTTTCTTAAGCCTGCGTCCTAGATTCCCGCTTTTGCGGGAATGACGGGATGTGGGT
TCGTGGGAATGACGTTGTGCAAGTTTCCGTGCGGATGGATTCGTCATTCACGCGCACGCG
GGAATCCAGACCTTATTGCAACAGCATTATTCAAACATTATCTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 750>:

GNMNE50TF gnm_750

CCCTGCAATAAAAAGATTCCGTTTTTCAAATAATATTCGAAACTCTGGCGTTTTTTTCCA
CTGTCGAAACTCCAATAGACTTTTTGCGGAAGACCGTCCGCATCATAGCCGACCACAAGA
CTGTTCGCCTTCATCCCTCGGGGCATCACTTCCCGCATACTCTGATAATCCACAGAATTG
CGCGAGTCCGACGCAGTTCGGTTGCTCTCTTTGCGGAAGTCGCAAACCTTCTGCTCGTCA
TTCGCGACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 751>:

GNMNE80TR gnm_751

CAGGTCAAAAACCTTATTGCGTCTGGCTTTCCGAAATCATGCTCCAGCAAACGCAAGTCG
CCACCGTGTTGGACTACTATCCGCGCTTCTTAGAAAAATTCCCGACCGTTCAGACGCTTG
CCGCCGCGCCGCAAGACGAAGTGTTGTCGTTGTGGGCGGGCTTGGGCTATTACAGCCGCG
CGCGCAACCTGCACAAAGCCGCGCAACAAGTCGTCAGGCAATTCGGCGGCACGTTTCCGT
CGGAGCGCAAAGACTTGGAAACCCTCTGCGGCGTAGGCAGAAGCACCGCCGCCGCCATTT
GCGCCTTCTCCTTCAACCGCCGCGAAACCATTTTGGACGGCAACGTCAAACGCCGGTAGC
GTCCAAGGCGTAGTCGTCCAAATGACGGCAAACGCTTTGCCTTCGAAACCAGCCAAACCG
AATGCGGCGGCAAGCGCGGCAGTGTCTTTAAACAGATAGGCAACGTCAATCGCGGGCGAG
ATTTTGTCTTTGTATTCCACTTCCGCTTCGGCCAGCGAAGAACCGCAGTCCAAGCAGAAT
TGAACCGGTTTCGCACCCCGGTAGAGATAGCCGGATTTGTAGATTTCGCCGAGCATACGC
ACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 752>:

GNMNK53TFC gnm_752

GTCGACTCATAGAGGATCCACGAATCTAGACCTTAGAACAACAGCAATATTCAAAGATTG
GCGGATTCGCATTTGAAGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCAT
ACGGCCTTTCCTGCAAGAAAGATTGCCATGAGCTACACGCAACTGACCCAAGGCGAACGA
TACCACATCCAATACCTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTGAAC
CGCCACAAAAGCACCATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATAC
AGCGCCGAAAAAGCCCAGCGGCAAAGCCAGACTATCAAACAGCGTAAGCGACAACCCTAT
AAGCTCGATTCGCAGCTGATTCAGCACATCGACCCCCTTATCCGCCGCAAACTCAGTCCC
GAACAAGTATGCGCCTACCTGCGCAAACACCACCAGATCACGCTCCACCACAGCACCATT
TACCGCTACCTTCGCCAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATA
TGCAGCAAACCCTACCGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAAC
CGTGTCGGCATAGAAAACCGACCCGCTATCGTCGACCAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 753>:

GNMNL81TF gnm_753

GCGGGAATGACGGCAAAGTGGCGGGAATGACAGATCGGGCATTCCTTAAATTACCCGTGT
ATCGCTGTAAATCTTACAGATGGCGGCATATAGTGGATATCCGCAAAATCGGCGCGGAAA
CAGGGGTAACCAAAATCCACCTCAACGTCCACGTCAACCACGACCGTGCCGACGCGCACC
GCCTGTATTTCAAAAACGGTTTTGAAATCTGCGCATACCACTTCCGTTGCGACCCCAAAT
GAAAACCCCCCTCCCCATCTGCACCCTGTCGGCACTCGCCGCCTGCACCCTTTCCGGACA
AGGCGGCAGCAGGGTTTACGGCGAAATCAAAGCCCGAGACCTTTGCGTTACCGCTCCTAT
CCTGCTTTCTGCTTTCTGTCTTGCCTGCTCTCGTTGAGCCAAGCGTTCTTGCAAGCTCGC
TTGCACGTTGGCAAGCATTGCACTCTATCCGCTTTCTTTTCCTGTTGCGGCTGGTGGTTC
AGGCTCGCGTTGTACGCTTTGCACTAAAGCGCACCGTGAATCGATGCTCGCTATTTATTC
TATCAATATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 754>:

GNMNN48TR gnm_754

TTGGGAAGTTGTCCGTGTCGGACACGTTTTGTGTCTGACCGTTATGTAGAAGGGCAAAAA
TGATAATGACCGCCCCGTTGCGTTTTGGAGAAGAGGGTAAAGGCAGAAAGCATATGCCGT
CTGAATGATATTTCAGACGGCATTTTATATTGCGGCGGCACTCAGTCCGTGTCGCTTTCA
GGCAACTCTGCCGAACCCATGCGTTTGAGCACGATATTGGTTTTGTTGCGGAGCCGTTTG
CTTTTCGGATGGTCGGCGTAGTAGAGCGGGGCGGGGACGCGCGCCGTCAGTTTTGCCGCC
GTTCAAAAAGCCAATTCCGGCCACCCCGGCGCGCCTATGGGTATGGCGGAAATGGCGGAA
ACATTGTGGACGAAATTCCTCAATCACAACCCCGCCAACCCCAAATTCTACAACCGCGAC
CGCTTCGTCCTCTCCAACGGCCACGCGTCTATGCTGTTGTACAGCCTGCTGCACCTGACC
GGCTACAACCTAAGCATTGAAGACTTGAAAAACTTCCGCCAACTGCACAGCAAAACCCCC
GGCCATCCCGAATACGGCTACACCGACGGCGTGGAAACCACGACCGGCCCGTTGGGGCAA
GGGATTGCCAACGCGGTGGGTATGGCATTGGCAGAAAAAATCCTTGCCGCCGAATTTAAT
AAAGACGGTTTGAACATCGTCGATCATTACACCTACGTCTTTATGGGCGACGGCTGTCTG
ATGGAAGGCGTATCGCACGAAGCCTGTTCGCTCGCCGGCAACTTGGGCTTGGGCAAACTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 755>:

GNMNQ41TR gnm_755

AAAAGCGGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC

AGGAATTCGGCACGAGAAGGGACTTATTACATTGGTACAGACATATTTATGCTTTCTTCC
ATCACCAACCACTAAACCCCTTTGGAGGAATGAAATAACTGCATAAACTAGTCAACTGAA
CACTGGGCCACTTACCTCAATGTTATACAAAGTCCTGGATGATTTGATTCTGAACCACAG
CCTTTGCAGGAGTTGGGGGAATCAGATTTGCTCATGAAGACATCCCTTTCCACTTTTGTC
ATGGGCAGTAAATACTATAGTTTACAATGCCTACCAATTAGCAAAGGATCATTCATTCAG
CTACTCAGTTCCTCTGTAAAACAGGTCTATGTATGTGCAATTCAGCTAAGATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 756>:

GNMNQ41TF gnm_756

TACGACTCACTATAGGGCGAATTGGGTACCGGGCCCCCCCTCGAGTTTTTTTTTTTTTTT
TTTTTTCTGTATTGAAACTTTATTACAAAATTATAAAGCAGAGCTCTGTAACAAAATAAT
ACACATTTGGGTTTGCTTTAACCTCCAAGTAAGTCTGAGAAAATCTTAATAAAAGCCACT
TGAAGTAACAATTCACATCCAAGAGATTTCCACAAATTTATACAATGTATATTGAGCACT
AGTTCCTGTACAGCTTATTCTTATTAGTTTGGATCCAACTATTCCAATGTATTATGAACC
AGTCAGCTATCTGTCTTTTGAAACAAGTCTTAACTGAAATCTCAGAGTAATCAGCAAAAG
CTACGGAATAATTCTAAGAATTAGATGTTTCCATATCATTAAAACCAAGGATCCATGAGG
GGCAGAAGGGAGGATTCAAAGATTTAAAAAAAATCAAATTTTAGACCTTGGTTAAATATT
AACTGGAATGGGATCTTGGAACTCCCAACTTTAATTTGGTGTAATAAAAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 757>:

gnm_757

TGTTTCCCTCTTGACAACGGACGTTAGCACCCGCTGTCTGTCTCCCGAGGAACCACTTGA
TGGTATTCTTAGTTTGCCATGGGTTGGTAAGTTGCAATAACCCCCTAGCCATAACAGTGC
TTTACCCCCATCAGTGTCTTGCTCGAGGCACTACCTAAATAGTTTTGGGGAGAACCAGCT
ATCTCCGAGTTTGTTTAGCCTTTCACCCCTATCCACAGCTCATCCCCGCATTTTGCAACA
TGCGTGGGTTCGGTCCTCCAGTACCTGTTACGGCACCTTCAACCTGGCCATGGATAGATC
ACTCGGTTTCGGGTCTACACCCAGCAACTCATCGCCCTATTAAGACTCGGTTTCCCTACG
CCTCCCCTATTCGGTTAAGCTCGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 758>:

GNMNR06TF gnm_758

GCTCGGCTCATGGAAACGAAATACATCGTATCTGCACTCAAATATCGCCCCGATTCTTTT
GCCTCGATGGTCGGTCAGGAGGCATTGTCCGCTACACTCAAAAGCTCCATCGTACAGCAA
AAGACAGCTCACGCCTATCTCTTTTGTGGCCCGCGTGGGGTGGGAAAGACCTCTTGTGCA
CGCATCTTCGCCCGTGCCATCAACTGTCTGGAGCGGTTGCCGGATGGAGAAGCTTGTGGG
CGATGCGAGTCGTGCAAGGCTTTCGATGAGCAGCGATCCATGAATATATATGAACTGGAT
GCCGCTTCGAACAATTCGGTAGATGATATTCGTCTCTTGATAGAGCAGGCCAATGTGCCG
CCACAGATCGGGAAATACAAGGTCTACATCATCTACAAGGTACAAATGCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 759>:

GNMNR07TF gnm_759

GAATCAATGGAGAAAGTTTGATCCGATGAGATAACGGTCGTCCAATCGAAAAGTCTGAGC
CTTTCATAAATTTCATCTGTCGTCTTCGCATGGAAAGTTATTACAGGTTTCAATATGCGC

AGTGCTGTACGCAACCGGAGATTAGCAAGATAGAGCATCCTCTTATCTTCCTCGAAAACTG
ACCATACGCCGGCCGACGGTTACCTCCTCAGCACCCAAGGCTGTTAGTTCGGCAGCCAAG
ACATCCTCCAACCCATAAAGGGTCTTAGCTACCATAGTAAATTGGAGATCGTTATTCATA
ATAGTCCATGATTATGGAACAAAGATAATGAAATACGGCCGCAGTTTATGGCTTTTTGAG
ACCTGTACGGAAGTGTGTAGATTCCAGCTATCAAGGCTCGCATTTCAGCCACTAACGTAC
ATCTAAAGCTCATGATGCTACGCTCGGTTATCAAACAAGTACGAATCCATATATCAGAGA
TTCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 760>:

GNMNR12TF gnm_760

GTACTGCTTATAGAGATGGCTTCCTGTTTTCGTATAGCCCCTTGGATGGCAACGATACGG
TCTTTAATGCTTCTCTGCTTGGAGCGCGTCTCTTGAGCTATTGCTACCATTATACCAAAG
ACGAAGCGTATCGCACGCTTGCGCGCCAAACGATCTCAGCTTGCTGTGCTGCACAAGCCG
AAGATGGTTCGTGGGTCTATGGGATGCTACCCGTGCAGTCATGGATTGATAGCTTCCATA
CCGGCTACAATTTGGATGCACTGATTGCCTATCAAGAGCTAACGGnGGACATTTCCTTTG
CCGAGAATATAGAGCGTGGGTTGTCGTATTACTTAGAGCATTTCTTCGAGGCAGATGGTA
TGCCCAAGTATTATCACGATCGTACTTATCCAATCGACATTCATTGTCCTGGTCAGCTCT
TCGTGTCGCTAGCTAGACTTCATCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 761>:

GNMNR14TF gnm_761

GGAGCGGGCGCAGTTCCTCCCTGCGCTGGACGAAAATAGCATGAACAACCTCTCGGAAAA
CAGCCTGAACGAAGAGAGTCGATTGCTTTGGGACGGCTCTTCGGATTGGGCAGAGGCACT
GACCAAGAGGATCCGCCATCAGGATCGCTTCCCCTATCTGATGCTTCGTTTTATCGAGGA
GATGGATCTGCTCAAGGGTATACGCTTTCGTGTCGATTTGGGTGAAATCGAGCTGGATTC
TTACTCCAAAAAGGTAGGCCGGAATGGTGAGTACGATCGCACGATAACGGATCATGCCTT
GGCATTCGGCAAGCTGTCAGACTTCCAGAATGAAGAAGAGGTAAGTAnGATGATCAGTGG
AGAAGCGTCTTATCCCGTACGCTTCTCTCTCTTTGCTCCCCGCTATGCCATATACGACAA
TAAGATAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 762>:

GNMNR20TF gnm_762

GAAAATACAGCCTTTTCGTTTTTACCGGTCAAAATAAAATCTTCTGAATACTGTCCCATA
ATCATATTTGTTAATGGTCAAATATAATGAAAGAATGTTTTGAAAACCAATATGAACTGT
TGCATGGGAGTTTCATTGAGCTCTTTTGCTGCAGAGCAGATTCTTAGTGTCTTCGGGAAA
GGTCAAACCTCCGGTATATGGGCACACCAAGCAAACAGAAATTTTCCCAAGTTTCCATTA
GAGAAGTACTCCTTTCCTCGTCAAATAGGCGAGAAATAAGAAACGATTGTCAGCTGATTC
TTGCTTCCTGCATGATGCAGGACGCGATTGTCAGCTGATTCTTGCTTCCTGCACGATGCA
AGACGCGATTGTCAGTTGATTCTTGCTTCCTGCACGATGCAAGACGCGATTGTCAGCTGA
TTCTTGCTTCCTGCACGATGCAAGACGCGATTGTCAGCTGATTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 763>:

gnm_763

ATTCCAGAGTACTTAACTACGGTTTTAAATGTACCTTTTTATTTGGGTGGCACGTCTTTG
TTGATTCTAGTTGTTGTAACGATGGATTTTAGTACACAAATAAATTCGTATAGGCTTACT
CAACAGTATGATAAGTTAATGACTCGTTCAGAAATGAAATCATTTTCTCGGAAATAGAAT
TATGGCGAAAGAAGATACTATCCAAATGCAAGGTGAAATTCTTGAAACTTTACCTAATGC
AACATTTAAAGTAAAACTTGAGAATGACCATATTGTATTGGGTCATATTTCTGGGAAGAT
GCGGATGCATTACATTCGTATTTCTCCGGGAGATAAGGTCACAGTAGAGCTGACACCTTA
TGATCTAACTAGGGCTCGAATCGTTTTCAGAGCAAGATAAACCAATAAAAGGAAAATAAA
ATGCGTGTACAACCATCTGTTAAGAAAATTTGCCGAAATTGCAAGATTATTCGTCGAAAT
CGTGTAGTTCGTGTAATTTGTACTGATCTCGGTCACAAACAGCGTCAAGGTTAATGGAAT
ATTTCTTGTAATGTGATTCTGTGATATAGTGACACACTTTGCCCTAAAAAGGAAAAAATA
TGGCTCGTATTGCAGGGGTAAATATCCCTAATAACGCACACATCGTAATTGGTCTTCAGG
CTATTTACGGTATTGGTGCTACTCGTGCTAAATTGATTTGTGAGGCTGCAAATATTGCGC
CTGATACTAAAGCCCAACATCTTTTGAGCAACAGAGCCCGTTGATAGCCACAGCTGTGTA
TGGTTAAAATTCTGCCCAGAATCAGAAAGAAGAGCGTACATTTTGGAGAGCAGTCGACCT
CTAAGATTTTCAGGAAGACGTTTTGTTATTTGTTCGCAAAAACTTCTAACAAATGGACAC
TCCCACATAATATGTCAACGTGTTCCCATTTGATTCAAATTAAATAGGGTACAGTTTGGA
GAATAGGCCTATTTGAATAAAAAGTATGCTCCTTAGATTTGGGATTGTGTGTCCCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 764>:

GNMNS04TF gnm_764

ACACTGATGTTACCGGGCATCTTGCTCCAGTTATAGGTCTCACCGAATGTGCCTGAATAG
TGGGTATGCGTCCCCGTCATATCATCGTAGTAGTCATATTCGCCGGAAGCCTTCTCCGGC
CACTTGTAGTGACGCATGATTTGTCCCATGGCAGTGGCAACACAACCGGTATAAGCCTGC
TGCCCGGAAGGAAGCAGGGGATGCAAGGTGTTAAATGGATAGCCCTGATCCCACAAGATC
GGATCCGATGCATGTTCGCCCGTTTCCAAAATAGGGGCAATGGATGATGGCAGGTCCCGT
GTAGGCTTGGCTTCACGGATAGGATCTATCGGCTCTGCCTTGCCGTCCATTACAGCAGGC
ATTTCACGTTCATAACCTTTGTGCCACCCTCTGATATTGTCCGGTATACGGGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 765>:

GNMNS06TF gnm_765

GAAAAGAGAGCTTCATGCGATCTCTCTGCAAACCTCAAGTAATCTGAAAAACACTTAAGA
ATCAGCTCTGCGGCAAAAGACTTCAATGAAAGTCCTATAAAATAGTTGCAAATAGCTGAT
AGTTAGCGCATTGATGGGAGCAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAG
CAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCCGACAATC
GCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGG
GAGCAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCTGACA
ATCGCGTCCTGCATCGTGCAGGAAGCAAGAATCAGCTGACAATCGCGTCCTGTATCGTGC
AGGAAGCAAGAATCAGTTGACAATCGCGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 766>:

GNMNS08TF gnm_766

CACTTTCACTTATACATACCCCGTTAAATAAGTTAAGAGGGAAATATGAAAAGTGTAGTA
ACAAAGCAGGCCCTCATCGGCCTGCTTTTCTTTAGTATAAGTATATACTCCCATGCGGCC
AACCCTCCGGCCCAACCTACCGACACCATCGTATCCGGCAATATCGCACTTGAGGATATA

GTGGTGACCGGTAGCCGTACAGCCCGTCTGCTTAAAGATGTACCTGTCCCCACAAAGGTG
TTCAAGGCCAAAGATATCAAAGCTATAGCCCCATCTTCTTTCATTGACGTACTGCAGTAT
ATTCTTCCCGGGATCGAGTTTACCAAGCATGGTTCCAGAGATCAGCTCAATGCTCAGGGA
TTTGACGAAAGTTCTATTCTCTTCCTCGTCGATGGCGAATTGATTTCAACGGGATCTACC
AGTGGAATAGACTTCGAACGAATCAATCCGGATGACATCGAGCGAATCGAAGTGCTTCGT
GGAGCTTCCTCTGCTTTGTACGGATCTAATGCCATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 767>:

GNMNS13TF gmm_767

GAATGGAGCAAATGAAAAAGCGATTCTCTGGCAATGTCCAAATGCATCTCAATTTGGACG
AATGCAGGAATGAGTTACTTGTACCTGTTTTAAGTGCTGAGATACAAATGCAGGTTAAAG
AGCTGTTTGAATTATCCATGCAAAAGTCGACAGAGGGAATATCCCTCTACTCCTCTGCTG
AGAGCTATCTATTGGCGTGCTTAGGGATGCAAGACTTTGTAGCCAATATAGATGCTTACA
ACGTAAAGACACTCAAAGAGAGCTTCCTTGAAAGTGGACGCATTGATGCAGAGTATTATT
TGCCTAAGTATGAGGATTACATCAATGCAGTATCGGCATACACTGGCGGTGTCGCTCCTC
TTGGTGAGGTCTGCACCATTAAAGACAGCAACTATACGCCAGAATGTGATATGAAGTATC
GCTACATTGAGTTGGCTAATATTGGCAAGTCGGGCGACATTACAGGCTGTTTGTACGAAA
ATGGTGAAGACCTGCCCACACGTGCAAGGCGTATCGTAACCCAAGGCGATGTTATTGTTT
CATCTATAGAGGGGTCTTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 768>:

GNMNS15TF gmm_768

ATCGAGTGGTTGCAGGTGGAAATACACGTTTCGCCTCTGTTCGGAATGGATTGCAGGTTG
TCCCTGATGGTGTTTTGGTTGCTGTTCATGACGGGGTACGTCCTTTGGTCAGTGCTGAAA
CTATCGATGCCTGTTTCGATCTTGCAGAGTTGAAGGGGGCTGTCGCTCCTTGTCGCCCTA
TGACCGAATCGCTTCGCTATTATGCCACTGATGGCAATTATGCAGTGGACAGGAGTCGGT
ACGTCACGGTACAAACTCCACAGACCTTTCGGAGCGAATGGCTTCGAGAGGCCTATCGGC
AACCCTATGAAGAGTATTTTACCGATGATTGTTCGGTATATGAACACCATTTTGGCCGAC
CGGTGGCATTGATTGTCGGTAATATCGAAAATATCAAATTGACTACTCCTCTCGATCTAT
CCCTTGCCAAACTGTTATTGACATCCTAATACCTAAAAAACATAAGTTACATCTCCACAT
TGTGGAAGAATACAAGACAAACTTAATCGAAGACCTCGAAAAGGGCTAGGGCAACTAACG
CCATGCCAAGTTTTAGAACTAACTTAGCTACTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 769>:

GNMNS17TF gmm_769

GGCGTTTCATCATCTCATGTGCCCTCGATGTAAGCACAGTGTATATACCACCCTGCTTAT
TGCAAACCTCCCAGCTCGTCTCCAGCAAGAGGGAAGGGTTGGGGCGAAAATCATTCATTC
GATCGCAATTCGTTTGGGAAAGTTTTTTCCGGTCTTATCCTCCGACCAACCGCCATACAA
AGGCCACGGCTACGGTCACAACGAAACCTGTGGCAAGCGGAATCAAGGCTGCCAGCAGCG
TCCATTTCCGGCTCCCCGTCTCTTTATATATGTTAAACAGGGTGGTGCTGCAAGGATTGT
GGAGTAGGCAGAACAGCATGAGATTGATACCTGTCAGCATAGTCCAACCGCCGGCTTCGA
ACAGTCGTGCCGTTTCGGCTGTGCCATCGGCTTCGAACATGACGCCGGCACCGGTTCCTC
CATCTATTCCCGTAGTCAGGACAGTCAGCATCAGTATCGTCGGTATCACTATTTCATTGG
CCGGAATGGCCAATACATAGGCCAGCAGAATGACACCGTTGAGTCCCATCAGCCAACCGG
GTCCGTCCAGCAGGTCGATCAGATATTCGGCTATCCCGACTCCACCGATTTGGATGTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 770>:

GNMNS19TF gnm_770

GACGGACGTATCATTTTCATAGGCCCCCTGCTAACGGAGCAGGAAGACTTACCCACCGAT
TTTGAGAATACAGTCCCTGCCATCTTGGAGGACTGGCATCGTGATGCAGCACCCTCGCTG
GACTTGCGATATGTGTGCGGCAGCTGGCGAACTCCCGGTTCTCCCCCTGTAGTACTGGTG
GACTTCGAACCCCTCCATGCACAGAAAGCAACGCTCTACTATGAGATGTGGGAGCACTTC
GGCATCCAAAGCGACAAGGGGTACGGCGACTATGACGAGGCCTCGCTCTTCGGCATTGCC
GCAGCCCAAACGATGCATAGCCTGTGTGAATACCTCTGCCCCGAAGACCAACCGGCCATA
GGTATATTCAACGAATGGATGCTCGGCATGGACTCCTCTACAGCAAGCGGAAAACACCT
CGTCTGAAAACCCTTTTCCTCACACATGCCACCACCACAGGGCGGTCTATCGCCGGCAAT
AACAAAGCTCTGTATGCCTACATGCCGGGCTACAACGGCGATCAAATGGCTGCCGAACTC
GGTGTAGAAGCCAAACACGGGATAGAAAAAGCGGCGGCTCACCAATCGGACACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 771>:

GNMNS23TF gnm_771

GACTTCACGGTTGTTTTCGAAGAAACGCCTAACGGAATAAATAAGGGCGGAGCAAGATTC
GGTCTTTCCACGGAAGCCAATGGCGCCAAACCTCAAAGTGTATGGATCGAGCGTACGGTA
GATTTGCCTGCAGGCACGAAGTATGTTGCTTTCCGTCACTACAATTGCTCGGATTTGAAC
TACATTCTTTTGGATGATATTCAGTTCACCATGGGTGGCAGCCCCACCCCGACCGATTAT
ACCTACACGGTGTATCGTGATGGTACGAAGATCAAGGAAGGTTTGACCGAAACGACCTTC
GAAGAAGACGGCGTAGCTACGGGCAATCATGAGTATTGCGTGGAAGTGAAGTACACAGCC
GGCGTATCTCCGAAGAAATGTGTAAACGTAACTGTTAATTCGACACAGTTCAATCCTGTA
CAGAACCTGACGGCAGAACAAGCTCCTAACAGCATGGATGCAATCCTTAAATGGAATGCA
CCGGCATCTAAACGTGCGGAAGTTCTGAACGAAGACTTCGAAAATGGTATTCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 772>:

GNMNS25TF gnm_772

GGCCGATAGATTTCTGCGGATGAATAAGACCGAGTGCCTTTCGCGAATTTGCGGTAATGC
CCATTCCCAGAATTTCACCGGCACCATTTCGGCCATGTCACAGCGGCATCCATCGATTCC
TTTGCTTGCCCAAAAGAGCAGAATATCTCGCATCCGAATCCACGTGTCCGGTAGAGGATC
GAAGTGTTTGCTTCCTCCATTCAGGTACACGATGCCGTACTTCAATTTCACCGTTTCGTA
CCAATCCTCCTTATCGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 773>:

GNMNS28TF gnm_773

GAGTAAGAACAACCGGTCGAGTAGCTGCTGCCCACTATCCGGGCGGCTAAAAAGCAGATC
GGTCAGTTCATCGCCCCAAAGTCTTTCCTCCGGTACGTAGTACTGCTTGGGTACCTCCCT
ATTCCAGAGGAGATCACGCGAATGATCTGTCAATAAGGGAGTGAGAAGAACACTATTGAG
CAAGTCAAGAACAGCATCTGTCCGAAAATGAGGAACTTTTTGAATAAGACGGATTTCTGC
CTGTACCCTGATCCACTTCTCGACAAAAATGGAAATGGCACTTTGAGAGAGAGGGATAGC
CCATAGTCACATTGATACGTCCTACAGTCTCGGCCAGACTGTTCAATACGGGCATCAACA
TTCCTGTATCGGGAAGAATGATAGCTGTTTCTATTCCTTCTTTGGTCAGAATAGCCTTCA

GGGTATAACTCCTCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 774>:

GNMNS30TF gnm_774

CACTTTCAATACTCAATTCATTCTGGCCTGGCTGTTGATCTTTTTGGGTATTGTCCTGTT
TGGACGGTTGGGGCTGCTGCTGTCCGCCCTGGTTATTGTTATTCGGATTGTTTTGCCGTT
GTTTTTTGTCGTGATTACTCTCCTTATTCTGATCCTGATTGTCTCCTCCTCCTTGCTGTT
GCTGTTTCTGAAGCAACTTCATGGTCAAAGCCAGATTGTAACGAGTCTCTTCATCGGTCG
GGTTGATTCGGAGCGAATGCTTATAGGCCTCCACACTCTGCCGATAGTCTTTCTTTTTCA
TAAAGGAGTTGCCGAGATTGTGCATCAGTTCGGCTCTACGCTTAGGTGTCAATGTCGGGT
CTTGTACAAGAGCAGCATAGTTTTGGAGAGCTTCATCGGTGCGGCCTTGTGCATACTGTG
TACCGGCCAAACCGAATCGTGCCTCGGTGAAAGTACTGTCCTTGGAGAGAGCTTTGCGAT
ATGCGACCTCGGCATTGGCATATTGATGGCGTCGATATACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 775>:

GNMNS34TF gnm_775

GGGACTGCTTTCCGACTTGAAAAAGAAAGCAAAGAGGATGGCGATGACCAATGCATAAGC
TGCGAAAATATACCATACCGTGCTCCAAGCCGTATGACCGGCATCCGTAAAGCGATCTAC
CACCCAACCGCTGGCAAATCCGCCGATGATAGCTCCGATACCATTGGTCATTATCATAAA
AAGGCCTTGAGCAGCTGCCCGAATCGATGGTGTAGTCTCTCGATCGACAAACATGGAACC
GCTGATATTGAAGAAATCGAAGGCCATACCATATACGATCATCGACAGAACGAGGAAAAT
GAAGCCGCTACCCGGATTGCCGAGACCAAAGAAAGCGAAACGCAACACCCAAGCCAACAT
ACTCATAAGCATCACCCGTTTGATCCCGAAGCGCCCCATGAAAAACGGAATGGTCAAAAT
GAAAAGAGTCTCGGAAATCTGCGACAAAGAAAGCAACACATTGGGGTGCTGAACGGCAAA
GCTCTCGCTATAAGCATCCGCAAAATGAGACAAAAACGGATTGCCGAATGTATTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 776>:

GNMNS37TF gnm_776

GTCTGCGGCAGGTATGCCAACAGGATTGCCCGCGGTTCTTTCTCCATAGACGGCAGATGC
TACAGCCTGCCGATCAACAATGGGCCGAACTCTCTGCATGGCGGCATCAGCGGATTTAAT
ACGAAGGTCTGGGAGGTGAAATCCGCCGGCCCCTCTTCGCTTGTGCTGGAATACGTGTCG
GCAGATGGAGAGGAGGGGTATCCGGGCGAGCTGGTCGTTCGGATCATTTACAGCGTCACG
GATGAGGGCGCATTGCACATAGACTATCGTGCTACTGCGGATGCTCCTACGGTTCTGAAT
CTGACCAATCACTCCTATTTCAATCTCTCGGGTGCAGGCGATCCCTCCGTGCATGATCAT
ACCCTCATGATACAAGCCCGGCATTATCTCCCCACAGACGATACGGCCATCCCTTACGGC
GAGCCTGCCGAGGTCGAGGGGACGCCGTTCGATTTCCTCACGCCTCACGGCATAGGGGAT
CGGATCGACAGTGCGATGGATCAGCTCATTTGGGCAAAGGGATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 777>:

GNMNS39TF gnm_777

CTCTCCTATCGTCAGTCCATGAAGAATAGGCAGCGGATCCACTCCGACAAACGAACGGCA
ATCATCTTGTAAGATGGGACCATCCACGTAGTCGTTCGGGTTCGGCCGATCAGTAACGAT
CAGCTTTTTCTGCTCCTCGGCACAAGCCTCCATCACATAGTGCAGCGTACTGATATAAGT

AAAGAAGCGAGTCCCGACATCCTGCATATCGAATAGCAGCACATCGACGTCGGCCAACAT
TCGAGGAGTAGGTTTCTTGTTTTTGCCGTAGAGCGAAACGATAGGGATTCCCGTCCTGAC
ATCCCGTTCATCCTTGACCGTTGCCCCGGCATCGGCATCTCCACGGCAGACGTGTTCAGG
ACCTAGGATCTTGCAGACATTGCATCACTGCCGAGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 778>:

gnm_778

CCCCCCGCTTTCTCTACATAAAATTACATTTTGCCGATATTTGCCGAATTGTCTGAAAAT
ATGTGTAATAAGGGGCGTATAATCAAAACATTTGCCCCGGATTGCCATGCCTTATTTCGC
CCTGTTTGACGATGCCGTAAGCGGCCGCGCAAAACGCTATCAAAATCATGTGGAAAGCCG
TTTTTTCCGTCCCGAAGAACTCGATGCTTTGGACGGCGCGCTGCAATCGGGCTGGCAAAA
AGGGCTGCATTCGGTGTTGTTTGCAGACTACGGATTCGGTTTGCCGCTGACGGGGGTTGA
GTCCGAACGCGGCGGCAATCTTGCCCTGCACTGGTTTGCCAACTGCGCCGACATCGATGC
CGAAAGCyGGCTTGCCCGACACTCAGATAGCCTCATGCGTGGGCCATCGACATGCATGAG
TTAAGCGTATCGCTAGCGTTCATCCTGAGCCAGGATCAAACTCTCCACTGTCATATTTGT
GTTTGTTTGCTTCTGTTTTTCTCGCTCAGACGCCGATTATTACCCTTTGGATAATTCGAT
TTATCAGGTAGTACACCTCGGTTTCTTTTTCTCTCTCGGTCTTTTCGTTTTTCCTCTTTG
ACAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 779>:

GNMNS42TF gnm_779

GCTGGTTCAGGCTCTCGCCCATTGACCAATATTCCTCACTGCTGCCTCCCGTAGGAGTCT
GGTCCGTGTCTCAGTACCAGTGTGGGGGATAAACCTCTCAGTTCCCCTACCCATCGTCGC
CTTGGTGAGCCGTTACCTCACCAACAAGCTAATGGGACGCATGCCTATCTTACAGCTATA
AATATTTCCTTGTAATATCATGCAATAATATAAGTGTATGCGGTTTTAGTCCGTCTTTCA
GCCGGTTATCCCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 780>:

GNMNS49TF gnm_780

GCCGACTGCCACGGTGCCGGCTGTCGGGTGACGATCGGCCGGGCCGAAGTCGGGATGCCA
GTCGGCTTCGTGTATCTTCTCTGCCATGCCTTCGAACTCGCCTTTGCGGATCTTGGCCAG
GTTTTCACGGTGGGGAGCGGTAGCCGATTTCTCATAGAGGAATACGGGCACGCCGTACTT
CTCGCCTATCGTGCGGCCTACCTCCTTGGCGAGGGTGTCGGCGTCTTCGGCAGTCACATT
CTTGATGGGGATAAAGGGGATCACGTCCACTGCGCCCATACGGnGGTGCTGACCCGTGTG
TTTGGTCAGGTCGATCAGCTCTACGGCTATGCCAACGGCTTCGAGCACTGCCTCCCGAAG
GGGCTCGGGTTCGCCCACTACGGTCACGACGAGACGGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 781>:

GNMNS51TF gnm_781

CCCTTCGTGAGGAAAAGACCGGTGGATTCCACTACGTATTCCACTCCGACTTGATCCCAT
TTCAGATCGGCAGGGTTCTTCTCAGCTGTAACTCGAATGGCTTTCCCGTTTACTATCAGC
TGACCATCTTTGACTTCGACTGTCCCATTGAAACGACCGTGTACACTGTCGTACTTGAGC
ATGTACGCCATATATTCCACATCGATCAGGTCGTTGATGGCTACAATTTCAATGTCGCTT

CTGTTTTGTGTTTGTGCTGCGCGGAATACCAAGCGGCCGATACGGCCAAAGCCGTTAATA
CCTACTTTCGTCATAACTAAGTGCTTATATTTAATGTTAACCATTATTGTTTTGTCCGG
AATACTTTGCTTTTCCCCCCGAAAAGGATCCGCAGAGATTCTTCCCGATAGACAGCGTTC
CAATGACCTTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 782>:

GNMNS53TF gnm_782

TAAATGGATGACCCGGCTTTTTTGTTCCGGTGGTTGATTTCTCATCGGTTTCAAACAAGA
AGAAAGAGTCCGACTCTCTATTTACTTGTATGGATTCAGAGAAAAATCAGAGAAGGCCTT
CGTCAGCGAAACTGAAATATGCCCCATCGTCACCGATGATCAGATGGTCGTTCAGTCGAA
ATCCGAGCAATGTGGCAGCCTTTTGCACCCTTTGAGTAAGCTGAATATCCTGTTCACTTG
GGCGTACCGTTCCTGAAGGATGATTGTGTGCCAGAATGATTGCCGAGGCAAGATGAGAGA
CGGCTTTGTGCATGATCAGACGGACATCGGnCGAAGTCTCCGATACACCTCCTCGGCTAA
AGGTTCTCATGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 783>:

GNMNS55TF gnm_783

GTACTTCGAAGAAGCATCCGGCGGCACGATCTTTCTGGACGAAGTGGGCGAACTGCCTTT
GCCCACGCAGGCGAGGCTGCTGAGGGTGCTGGAGACGGGCGAGTTCATCCCCGTAGGAGC
CAGCCAGTCGCAGAAGACGGATGTCCGTATCGTAGCGGCGACGAATGTGAACCTCAAGGA
GGCGGTAGCGAACGGGAAGTTCCGGGAAGACCTCTTCTTCCGGCTCAATACGGTACCGAT
CGAGGTGCCTGCGCTGCGTATGCGACCGGACGACGTGCCCTTGCTTTTTCGCCGATTCGC
CGCCGACAGCGCCGAGAAGTATCGGATGCCTCTGCTGCGCCTATCGGACGAAGCCGTACC
ATATTAATGCGTTACCGCTGGCCCGGCAATGTGCGACAGCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 784>:

GNMNS57TF gnm_784

GCCATTGTGGACGAACTCTACCGGCTTGCCGGTATCTATAATACCTGTATTATCTGTGTA
CTCCATTTTGTCCCGAACGGGATTAAACTGCGTGGGCATATCGGTTCGGAACTTCAGCGC
AAGTCGGCGGCCATCCTCTCCATAGAGAAAGATGAGAATCCGGCTTTGTCGGTCGTAAAA
GCACTTAAAGTAAGGGATGGAAGCCCGTTGGATGTACCTTTGATGCTGTTCGGATGGGAC
AGGGAAAAGGAAATGCACGTTTACCGGGGAGAGAAATCTCCGGAAGACAnAGAAAAAACGG
AAACTTACGGAATTGGGACAAATCGCAnAAGAAGTCTTTCACGCnCAAGAGCATTTATCT
TACAACGAACTGGTCGAAAGAATCATGCAnACGGTCGACGTCAAAGACCGTACGGCCAAG
AGTTATATCAGTTATATGCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 785>:

GNMNS59TF gnm_785

CGTGCATATGTGTCGGAGAACGGCTTGCGTCATACCCCCGAACGATACAGCATTCTTGAA
GTCGCATATAATCTGAAGAAGATATTCACGCCGGACGACTTGTTCGATCTCACTCGCGAG
AATGGCTTGCCTGTAAGTCTTTCTACGGTCTATAATACCCTTACCTTGCTCGAACGCTGC
GGGATCGTTCTGCGTTTGCCTTCTCCCGAAACCAAATATCAGTACTTGATGGCTTCATTT
GCAGAGCAGTGTCCGCTGCTTTTCTGTACCGAATGTGCACAATTTTCTACCTACTACCGA

CGAAATGTGAAGTCGATACTGGCCGACAAGGATCTCAGACCACCACGCTTCTCTTATAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 786>:

GNMNS63TF gnm_786

GCACACCTCCTGCGCGATAAGCCTTGATTATCGCCTGACGGATTTTTCCGGATCGAACG
ACTGCACATGACCATCACGCTTTACGATGCGAAGGATTACCTCTTCCATTGTAATACGTT
ATTGTAAAAAAATACTTCCTGAGATCTATTCTCTTAGTGCCGGGGAGACTCCTTTCCTCG
AGGTCTTCTCTCCATACTTTATAGGCAACTCGTAGAGGCAGGTATTCTGGCTTACTTCAT
CTCTTTTCTGTTTGTCGCGCCTTCCCATTCAGCTCCACCTCTAATAGTGGAGAATGAACA
GTGGCATCATTTGGAAAGCGACAAGAGTCCGCATGTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 787>:

GNMNS65TF gnm_787

GTAGGCAGGGGGATCCCCCTCAAATCCCAAAAGTCTTGTATTGGAGCGACTCAGCTCTCA
TACTAAAAACTCCCCCCTCTAAGCAAACATTTAGGACACTATTGATTTGATAGCGGTTTT
TCTATACAAACGATGATCCCGGCCCCCTGCTTGAAACTGAATTTTGACACACCCTCTTCT
GGTAGTTGGGGTTAATTTAGGCCTTGCGTTTTTTTCTGCGGAAAGGTTGCCGTCTTTAAC
CATAAAGAGATGAGACTTTATTGAAAGAGCATATCGGACGAGATCGGCTTGAACTTTTCT
TCTCCCTTGAGCCGTATCATTACCCTGCTGTAGTTCCAATAAGTAnGCCAGCCACCTTGT
ATGGCTCCGACCCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 788>:

GNMNS71TF gnm_788

GTATGGTTTGAGTGACTACGAGGTTGAGGAGTGCATCAACGACTCCTTGCTTTTCAGTGA
ATTCCTTGGCTTGGACCTCGGCTTCCCTTCCCCCGACCATAGCACGATCAGTCGTTTCCG
TAGTGAACTCACTCGCTTGGGGATTATGGATAAACTCCTTCGGGAGCTGAACAAGCAGTT
CAAGAAGCACGGCATCAGCCGTATCGATCAAGGCGCCATCGTTGATGCGAGCATTGTGGA
TAGTCCTTACGCCCCTGATGGCAACGTGGTCATAGAAGTGGCTGAAGATCGAGAGGATAC
TCGTTCGGAGGAAGCTCGTACACAGCCAGGAGGCTTATCATTGTGAACTCAAGAGTGGCA
AACCGGGAGTAGACTCGGAGGCTCGTTGGGTACGCAAAGGCAGGCACTATCGGTATGGAT
ACAAGAAGCACGTCTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 789>:

GNMNS73TF gnm_789

GTTTTGGAATATAATATCGAAGTTCCGGACAGAATAGTCCGTTTTACCTTCCTGTATCGG
CATAGCATCCATCTCTCTCACCCGATCGATACGTACATCGAGGTACTGCAAGAGTAGCAA
ATTGCTGAATACTTCACTTATGGGATTATATATGCTCGATCCGATAAGCAGAAAGACTAA
ATAAGTGAATAGATCAATTGTTCCTTCTGACAAGAGATAAGCTCCCATTATGATTACAGA
GGCAAGTCCCAGTTTGAGGATTATATGTGAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 790>:

GNMNS77TF gnm_790

GCTCACAGCTCTATGAGATGGAGCTACAGCGCCGACGAGCTGCAGAGGCCAAAGTGGAGG
CCGGCAAGAAAAAGATAGAGTGGGGATCGCAGATTCGGAGCTATGTATTCGATGATCGCC
GTGTGAAAGACCATCGTACCAACTATCAGACGAGCAATGTCAATGCCGTTATGGATGGCG
ACATAGATGAATTTATCAAGGCTTATCTGATGGAATTTGCCGGTGAAGAGGCGTAATCGA
CTTTCGCTTCTGAAGGAAGGGATTCGTTGATCAAAGGAAATGGGGCAGGCTTGTATTGGC
AGTCGGCCCATTTCTTTTTTGTGGGAAGTCCGGAAATGTCGCCGGTTTATCGGCTCATAT
ACAATTATACGCAGGGTTATTGTATCTCATGTCCTTTCGGGTAGTAGGCACTATATTCCT
GCTACAGGACGGnGAAATAGCCGACTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 791>:

GNMNS79TF gnm_791

CTCTTCGGATTAGATACGGTTTGTATGCTTCTCGATAAGGAATTGCTTGACTTTGCCTAC
TCTCTTCCCTTCGAATACCGCTACGGAAAGCGTATCTATGATGATATTTGTCGTGAACTG
TATGGCGAGAAAGGCATTTCTTTTTCGGACGATTTGAACCTGCATGGCATTATCTCTTCT
CCTGTTTACCGACTCAAACGATCTCTAAAGCCTTTGCTTCGACCATTTATACCCCGTCCT
TCGATTTGGAAAGGCGATATTATCGGTTTTGAACGGATCATGCAACCTGTATTACGACAG
GTAGAGCAAGACGGACGTTTCCACCCGACATCTATAAATGGGTTATCCTTCTGCTGGTAT
CTGCTTCAAAACGAnAAATTGATTGACCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 792>:

GNMNS83TF gnm_792

GCCAAGTTCTTCAGCAGGTCAATGCCTTCGGCAAACCATGACGGGGCATTGAACAAACTG
AAAGGCTTGATCGTGTAAGAAATGTCATCGAGTACGGGAACGACTACGCCTGCCACCTTC
TTTGCCGAGAGCTTGACACCCTCCACACTGATCAGGTCGGGTTTGAATTCGTTCCACAGG
CTTACCATGCTTCGGTAGCCTACGATCTCTTCTTCCAGTTGGCGTTCCAATCGCTCCACC
TCGTCCTTCGTTCGCTTCACCTCCAGACGCAATGCGCTCTCCTTGCTTTTGATCGTCGGT
AAGGTACGCTCTCGCATCTTAAGCTGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 793>:

GNMNS87TF gnm_793

GCTTATGGCAATGCTGCCCAAGGAATCATCGACTTGGCCGAACAGGCAAGTGCTAAGATC
GTCGGTATGGGCTTTATCATAGAGAAAGCCTTTCAGAACGGGAGAGAGGCTCTACAGGAA
AGAGGTATAAGAGTGGAGTCGCTCGCGATCATCCGAAGCCTTGACAACTGCTGCATAACT
ATTGCAGACGAAAACGAAGACTAACCATACACCATTCCAATACACATCCCGTCCGCTGGC
TCAGTGGGCGGGATGTTGCTTTTTCCTTCCCTTTTCTCCGAATATAAAGACGTGCCACTT
TTCGTTTCTCATTCGGAAGGCATATTGAGCCCTTTGAAAAAAGAGAAGGTCTCTATAATG
CAAGAATCCGAGTACGTGCTACAGATATGGCCGAGCGGCAGTTTAGAGACTGTCTCCTCT
GTCCTCAAGATAATAAGTGCCACGCAGGATTTCGCGTTTAACGGGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 794>:

GNMNS89TF gnm_794

CCACTTTTTCCGTAAGGACAGTATCGTACGTTTCCACCGCTCGGCTTTCCGCCTGTCCCT
GCCGGTGATCGGCGGCATAACGGCTATAGGGGTAGCACCCTTTCGCCATGCACCTTACGG
GCAGTCTGGTCAATATCATCATGAATCGTTCTTTCGTATCCTACGGCGAGACAGCAGATG
CTACCGACTTGGCCATCGGAGCATTCGGGATTATCAATGGCTATGCCATGCTCTTTTTCA
TGATTATCATCGGTGTGGCTCAGGGGATGCAGCCGATCGTAGGTTTCAACTACGGnGCTA
AAAATCCGGGACGGGTGAAGTCGGCCTATCGCTACAGTTGTGGCGTCAATCTACTGGTCA
GCTTTCTCGGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 795>:

GNMNS91TF gnm_795

GCAGATGGCGAACGGATTTGCCAGCTTGTTATCGCCAGACATGAACAGGCCGAATGGGTG
CTTACAGACGAATTGGCCGATACGGAACGAGGTGCAGGCGGATTTGGTCATACGGGCAAA
GAATAATTTTCAATCTCCCTTCAACTACCACAGATGCGGATCCATTCTATCATTCTCCTG
CTGTTTCTTTTAGTTATTTCTCCTGTAGCCGGAAGTATATCCATTACAGACAGTACAGCA
TCTAAGTTCGACCGATATTTCTATGAAGGTGTCCGGCAGCGAGAACAGGAGAATTATGCT
GCAGCTTTCGACATCTTTCGCTATTGCCATCGGTTGAATCCCAACGATGCGGCTCTGTTA
TCGGAGTTGGGAAAACTGTATATTGCCAATGGGCGTCAGGAGGAAGGAACCCGGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 796>:

GNMNY45TR gnm_796

CGATTATGAGCGCTGTGCGTACGCCTACGCGCCAGCTCTCAAGCCGCCGGACAATTGAAT
GCGACGATAGTTTGGATTCCATCAATGCCACTACCAGCGCGATTGTGAAATACGTTTCCC
AGCGTGCGGGCATCGGCATCAATGCCGGACGTATCCGCGGTTTGGACAGCGAAATCCGGG
GCGGCGAAGCGCGGCATACCGGCTGCATTCCCTTCTTTAAAATGTTTCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 797>:

GNMNY56TF gnm_797

GTCCGCTGATCGAGAACGCGCATGAAAACGGTAGTCTGGATTGTCGTCCTGTTTGCCGCC
GCCGTCGGACTGGCGCTGGCTTCGGGCATTTACACCGGCGACGTGTATATCCTACTCGGA
CAGACCATGCTCAGAATCAACCTGCACGCCTTTGTGTTAGGTTCGCTGATTGCCGTCGTG
GTGTGGTATTTCTTGTTTAGATTCATTATCCGCGTATTCAATATCCCCGAAAAGATGCAG
CGTTTCGGTTCGGCGCGTAAAGGACGCAAGGCCGCCCTTGCCTTGAACAATGCGGGTTTG
GCGTATTTTGAATGGCGTTTTGAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 798>:

GNMNZ15TF gnm_798

CGCGACTGTTGCGATAAGCGCGGAGGCGATGATTTTTTTCATGTGTGTCCTGTTTGGGTG
GAAAATCGGTTTTATTGTATCGCCGTCGGGAATTTTGGCAAGCATTCTGCCGGCAAATCG
TGATGTTTACAGGGGCAGGGTGTGCAATTTGCGGACAAATGCGAGGCTGTTGGCGACTGG
GTTGCCTTTGTTTTCGACTTCGTGTTCGGTTTCTACGGTCAGCAGGCGGCGGTTTTTGTG
TTTGTTCAGGCTCAATTCGGCTTGTGCGGGTGTGAAAAACAGGCGGTGTTTTTCGGCAAA

GCGGCGGGCGCGGCTGTTGGCGGTTTTCAAAATCTGAAGCAGCGATCGTCCAGATGGAAG
CGTCGCACGCCCAATACGAGAATCCGTGCGGCAAAAAAATCGGCGGCATCGGTAAACTCG
GCGGGGCTGCTGCGGCTGAAGTCGTGCCGTTCGGCGGCTATCAAGGCGGCAACGGTGCGG
ATTTGCGGAATCATCGATTCGCTGATAAGTGTGTCGTCCCGCCCTGCATCGAGAAGCATG
GGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 799>:

GNMOB22TRB gnm_799

ACTTCTTAAGGTCAAACATCTACTACTGATTGACAGCGAATTAGCATTGCGAGGGAAAGG
TGAAAAGAATTTTGGGAGGGGAGCGAAATAGAATTCGAAATTCGACGTACATAAATAGCG
GGAGTGTTTCAGCGGCGCGATCGTGCATTCCCCGCACAACGGGCTAATGATCCATACCTA
GCAGTGAGTCCAATTGAACAGGGGAGGTGCAGGGAAATTGAGCTCCAACAGGGTGACGAG
CCGTCGGGCGCAGATTTGAAATTGAGCGACTCACTTACGGTTAGGCCGAAGGCGTTGCAA
TAGGCATCGGAGGATTGAATTTATGTACGCCGTAAAACGTGGGGACGAGTCGCGGACAGG
GGCGAAAGGTCAAATAAATCTGGAGACAGTCGGCCTCTTTTGAAAATCACCCAGGCAGCG
TTCTGAGTAAGATATCGACGGGGGCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 800>:

GNMOB25TE220 gnm_800

ATTACTGCCCAAGTGGAAGTGGGCAAAGTGTACGAAGGCACTGTGGTGCAAAATCCTCGA
TAACAATGTCGGCGCGATTGTCAGCGTGATGCCGGGCAAAGACGGTTTGGTACACATCAG
CCAAATCGCCCACGAGCGCGTACGCAATGTCGGCGACTACCTGCAAGTCGGTCAGGTGGT
GAACGTGAAAGCATTGGAAGTGGACGACAGAGGCCGTGTCCGTCTGTCCATCAAAGCCCT
GCTGGACGCGCCTGCCCGTGAGGAAAATGCCGCCGAATAACGCTTAAGGTGAAAGTGCCG
TCTGAACAGGTTTCAGACGGTATTTTTTACGGGTATCGGAATGAATGGGGCTTACAGCC
ACAGGACGGCAAGTTTCCATAATGCCCGGGGATCCTCTAGAGTCGACCTGCAAGCATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 801>:

GNMOD17TRB gnm_801

AGGTGTACACGGTTCCCGCCATTAGTACTATGTGGTCGTGGTTCCGGCCCCCGAATGACA
TCCTGTTGACGATAAACCTGCTGGTCCGGCACCGTGTGGTAATTCGTGTGCACCCTAGAT
TGATAAAGTTGACCCGTGGATCGGCAAATATTATGTTGACGGCGTCGTGTTGTAAATTGT
TGTTGACACCTGGGCAGTGGTTTGTGCCACTGTTGGTAACTCCGTTCCGGCTGGAGTCCT
ACGTAGTAGAGGTAGCCGGCCGGATGTACTGTTCGTGACGAAGACACGTGGAACATCGGC
TCGTACGGCTAGTGGGCTGGTAATAGGCATGTTGTGTGTACTCCCCCTGACACCGACACC
CCTTAAATTGACACCGCTAATGCCTGGATGGTGGTTTATGGTCGTTAGTACACACCTGGT
AATAAACATGTTCCCCCTGTTACTTCGTCTTTAACGGATCCTCATACCGTTGCTCGTACT
GAGCCCGATTCTGGCCCCAGTACTTAGACGTAGCCCTAACCTCCTGTTGAATATGGTGCC
TGTTCTGCTCGAAATGATGGGGCTGGAAACGTTGTTGACGACCTTGTTTAAATTGAAAAC
CCTAATCCCTATGTTTAAATGGCGTAACGTTCGATTTAAGCCTAAATTGACAATATTTGG
TTTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 802>:

GNMOD53TFB gnm_802

GGTAACGCCTAAAGGCGAAACCCAACTGGACGCCGTGAAGAAAAACTGCTGCGCGCCATC
TTCGGTGAAAAAGCATCTGACGTAAAAGATACTTCATTGCGTATGCCTACCGGCATGAGC
GGTACCGTTATCGACGTTCAAGTCTTCACTCGTGAAGGTATTCAACGCGACAAACGTGCT
CAATCCGCCCGGATGGGATTTGATGCGTTGCGGGGAATTGATGGGGCCGGGGACGAGGAC
GTTGGCGCGCAGGTTGCCGAAGCGTTCCCATTCGTCGGCGGCGACTTTGCACAGGTAGTT
CAACGCGGCTTTGGACGCGCCGAAGCCGCCCCAGTAGGCTTTGGGTGTTTCGCCGTGGCT
TTCGCCGACGAAGATGACGGACGCGTCGGGCGACTGCTTCAGCAGCGGGAACAGGGCGCG
GGTCAGCCCCATAGGTGCGACGGTGTTGATGCGGTATTGGGTGACCCATTCGGCGACGGT
TTGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 803>:

GNMOE03TRB gnm_803

GTTCCCCTTGTAGGTCGCAACCGAACCCTATAAATTGTTGAATATCGTTGATGGATGTGT
GATTAGTACTAGGAATGTTGTAACTGTTAAGGTCCTTGTTGTTTCGCTTAATATGCCGGT
AGGAGAAATTAGTAGTAAAGGTACCTTTAAATGCGTGGATAAAGCGGCTGAAATTATGTC
TAGAAATAATAGCGTGTTATTTGGTAGGAATAGATCGTTTACTTAACTTATGTCAATGAC
CTCTTTCCAAAACCTACGAAACCAAAACTGAAAGATCGCAATATGGCACCCCTCCCCTAT
GAAATCCCATCCTATGCTTGTTATAGTGCCTAGATGGTACCCCTTCGCCCTACGTTGTTC
GAAATTGTTTAAACTTGTGCCTCTTCACACAACGCTGGATCCCGTGTTGTACCCTAGGAC
CTCCCAACGGTACCCGTTCTATCACCCATTTCGTTGGATGATACTATTGTTGCCCCGGAT
GACGCCGTTTCGACGATTAAAGTTGTTGTAAAGAAAATTGTTGGTGCGGCTGGTGATGAC
CCGGTATTTAACGTTAATTGGGCCATGGGTGCACTGGTAGAATGTGAGCCGTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 804>:

GNMOG34TF gnm_804

CGCGCCGAAGAAATTCGCCGGGGCCGCGGATGTTGAGGTCTTGGCGGGCGATTTCAAAGC
CGTCGGTGTGTTCGTAGATGACTTTCAGCCGCGCTTTGGCGAGTTCGCCCAAGGGTCGCC
GCCATTTCGACGGGGTGGTGTCCGTAGTCGTCCACCAAGAGCGCGGTCCCGCCGTTTGGC
AACTTGATGTCGCCGTATTTTTGGAAGCGGCGGCCGACGCCTTCAAAGCCGAGCAAGCCT
TTTTGGATCGCTTCAACCGATGCGCCGACTTCCAGCGCCACGCCGATGGCTGCCAATGCG
TTCAGCACGTTGTGTCTGCCGGGCATATTCAGCACGACTTCAAACGACCCCTGCTCATGT
CCTTTCATTTGAACATGGACGGTGAATTTCATTTGCGCGCCGACGTTTTCGATGTCGGTG
GCGTAGATGTCGGCGGTATCGTCCAAACCGTAAGTAGCATAAGGTTTGCTCACTTTGGGC
AAAATCGCGCGGACGTGTTCGCTGTCAATACACAAAAAGGCTTTGCCGTAGAAGGGCATA
CGGTGGATGAAATCGATAAACGCCTGATGCAGTTTTTCGACGCTGTGCCCGTAGGTATCC
ATATGGTCTTCGTCGATATTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 805>:

GNMOG50TR gnm_805

TTTGACGGTTTCATTATGGCGCAGCAGCTTCCCGAGCCGCTGGCTTCGCAGTTTGCCGCG
ATGAATCGGGGCGACGTTACCCGCGGGGCTGATTGAAAACGGCGGCGATGCTGTCTAAAC
AAAATCTCCGTCTGAACAAAATCCCCATCGGATAAAAAATGCCGTCTGAAACGTTTCGGG
TTTCAGACGGCATTTTGTCGGGGTACGCGGCGGTGCGGCTTATTTCACTTTACCTTTCAA
CGCGCCATATCCTGCCGCGTCCATTTGTTCCAGCGGGATGAATTTCAAGCTCACGCCGTT

GATGCAGTACAGCAGTCCGCCTTTGTCACGCGGGCCGTCTGGGAAGACATGTCCCAAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 806>:

GNMOH10TR gnm_806

CCCGTACAGCCCGTCAAAATCCGTCGCGTTGTTGTCGGGCAGTAACACGCAGAGAGACGT
TCAGACGGCGTCGCCCGTTTCCCAAAAAACGCCGTTTAAAGTAAAAAAATATTTTAAAAC
AGACAGTTGATATTGACAAATTCAAACCGAAGATTTTAAAATGCTGCCAACCCAATCCAA
ACCAACCGACAAACTTTGGGCGTGGATGCCGGCATCCCCGTATTCGCCCTGCTGCCCGGC
AGACGCGTCAGCGAGATCGACTATATGGCGCCGGTGTTTTTTCAGACGGCATTATTGTTG
TTGGAACGCTATCCCGCCGCACTCTTCCTGCTGCCTGCCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 807>:

GNMOH12TF gnm_807

CACTTTTATATAAATCATTGATCCCATTACCCCAACCTCCAATTTTTTGCCAACCATCTA
TTGTATATTCAACACCTAACTTTGTTACATCCATTATCACAGATTGTAAAAAAGTAAAAT
GCTTCTCTTTAAAAGATCCATCAAATCCTTTATCTAAAGCAGATATTAACTGCTTTCCAT
TATCCCTTTCGCTACCGTTCGGATTATTTACTGCTTGCTCCGCCTAAAAAACGTCGTATT
TAATATTGGAGTGATTTGACACATGGCACGTTATATTGGTCCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 808>:

GNMOI35TF gnm_808

GAGTTTGGCTGTAACTGGTTTTACCATTATGGCGGCACGCGTAAACATTTGCCGAAAATA
CGGTCTGAACCGCTGTAACAAGCAACATACTTCCAATTATTTAGATACGCGCATATCAA
CCTCCTTTATCGTTCATCTTCAAAAAAGGGAAAGTTTTTCAATAGCACTTCAATCAATTC
CTTCATTCCCCGGCCAAAAAATTGGACGGTAATTCCCACCCACCCCCTACTTTGATTTCAG
AAATATCTTTAAACTTCCGCTTAAAGGCGGACACTTTGTCCATATCGTCATCAATTTCCT
GTTTGCCGAACGGTATTTTCCGCTTTTCCAAAACCTCGTCATAATAACAAGATAnATTAA
GCAATAGCCCCCAAGCACTATTTGCAATTACGACTAATCTATGTTTTTCCCTAGTTAAGT
AATCTGCnACGCTATCATAGATTGCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 809>:

GNMOK36TR gnm_809

CCTTGAAATGAAGTATCTCTCTTATAAAACTATCTTGGTAGCTCTATAGTGTTCGTGACC
CAGTGGAGCTCCAAGCACATCTGTGGAAGGTAATTCTTCACAGACACTGTGGGATTTCAT
TGCTGCTTTTGGGTTGTGACTCAGCTCCTTCGGTAAATATAGCCCATTACATACTTTCTC
CAAGAGCTGAATTATAGTAATTCAATTTTTAAACTCACAAAACATTTTGTCACAGAAATT
AACCCAAAGGCTTTAAATTATATCATTTCTTGATAGATCACTTATATTTCTATTTTCTTG
ATTTCTTACTGGATTTTAAAAAATAGTCCCCTTTGGTCTTTCACATGATCTTATTTAAGCC
CCTTTCCCCTAGTGTGACTTTCTTTACAATAAAGTTATTGGGAAAAAACTCATTAATTCAT
TGACAGAAGGTATTGAACTCCTGGGTGTTTGAACAGATATACAACACGCTGAAGCTGAAT
TGCGCCGTGTATCCTGCTGTGGACAAATCCTGCCGCGCGTCGGCGGACAAACCGTATTCC
TACGACAGCAGCGACCGTTTCCACTACCGCGAACAGCACAATGTTTTGAATGCCTCGTTT
GAGAAATCGCTGAAAAACAAATGGACGAAACACCATCTGACTTTGGGCTTCGGTTACGAT

GCTTCCAAAGCGATTTCCCGCCCCGAACAGCTTTCCCACAATGCGGCAAGGATTTCGGAA
TCCACGGGATTCGATGAAAACAATCAAGATAAGTATCTTTTGGGTAAGCCCGAAGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 810>:

GNMOL05TRC gnm_810

CCCCAATCGACCGACCCAAAACAAATCACCCCCTGATGTAAGCCGTAGTAACCTCGTTGT
ACGCCGTTGTGCTGCACTGGCAACGATCCTCTTGTTTAATACATGGGTAATTCTCCTGAC
TTGCCGGACCCTACTTAACACATCGACCCTGTCGATGGCCCGTCTCTTTCTGTCGCGTCC
GTGTATTTGTTAGCGGCCCCTCTTGTAAGACGTGATCCGGGGAAGGCGGGCAACCGTAAG
TATTCGACGCCCCTCGTTTAATGTATGCAACGTTCCGTTGATTACCCTAGTTATCTTTTT
CTTAACATTGGCACTGATTCTACTAAAAACTAAGGCGGGAATCCGGGCACACCGGTCGGT
AATAATTCGCAAGGTAAGGTCGACATGTGTTAACCTGTTGTTGGAGGTAATCCCACCTAG
TAGATGGGGTGGACCGTTCCCGCCGGTGGTAATCCGAAACCGAATTCGTCTTAAATTGCG
CGTTGCTGGTGATGAAGGTAATAGGATGACGCTCAAATGTGTGTTCCCTACGGTAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 811>:

GNMOL83TR gnm_811

CTTCGCCGCCGCGTCCGAACACGAAAGGGTCTCCGCCTTTCAAACGCACCACGCGCCTGC
CTTCGCGGGCCAGCCTGACCATAAGCGCATTGGTGTCCTCTTGCGGGGTGCGCTCGCCCC
GGGCGCGCTTGCCGACAAAAATCCGTTCCGCATCGCGGCGGACGAGGGACAGTATGCCGT
CTGAAACCAGCGCGTCGTAAAGCACCACGTCTGCCTGCTGGATTTCCTGCAGCCCTTTGA
GCGTCAGCAGCCCCGCATCGCCGGGACCCGCGCCGACCAGCGAGACGGAGCCGCCTTGAT
CATTTTGACGACTTTGTTCCAATTGGCCTGCCAATTCCCGTTCGGCAAGGGTGTTTTGCC
GGTTTTTGACGAnGGCGGCGAAACGTCCGTTAAACTGCTTTTCCCAAAAGCGGCGGCGTT
CGGTAACGGATTTCAGTTTGCCCTTGACGGCATCGCGCCACCTTCCTGAAATTTCCGCCA
TATCGCCCAAAGACGGCGGCAGCAGGGCTTTCAGCCTTTCACGCAGCAGTCGGGCGATGA
CGGGCGCCGCCGAACATTACCTGCCTCTACATCCGTCAGGCGGAAGCACTGGGCTTGGGA
CACGCCGTCTTGTGCGCCCGCGCCGCCATCGGAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 812>:

GNMOM42TF gnm_812

GTCCCCCTGGAGGGGGGCGGGCTCTTCGTTGCGGCGGAGGTTGTGGTCTTCTTCGGGCTG
CGCCTGTTTTTTGCGGAGCGCTGCGGCCGGCCCGCGCCGTTTTTCTTCGGCTTGCGCCTT
TTTTGCGTTTCTGGGTTTGCCTTCGGCGGGCTGCCTTTCCGGGTCCGGGCCTTCGCGTTG
CGGTTTTTGCGGTTCGTCCTGGCGGGCGGAGGGTTCGCTGTCCGGCGTTTTTTGGGTCTT
GCGCGCCTGCTTGGGTTCGGGGTGnGTGCGCTCGGTGTTGGTGGGGCCGGTTTTTTGGAA
GGTGTCGGCGTGCGCGCCTGCGGTGCGGCGCGGGCCGGTCGGGGCCGCGGCGAACGCGCG
GGTCGAACGGGTCGTGGTAAGGCTCCTTCGGGTGTTGCCGCGAAGTGCCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 813>:

GNMOM51TF gnm_813

ATCAAATAATTGATTTTATTAGAATCTATTTGCAAAGCCATTTGCCGTTACACAAGAATG
GCACATnTCnATAACTGATGAGGATTTATACCGATGAAGACAGACATTCAAACCGAATTA

ACCCATGCCCTACTACCACACGGATTATCTGTGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 814>:

GNMOM81TF gnm_814

CGTGTCCGCGCTTTCGCCCGACGATTTGCCGCTCAACCAAAAATGGTCGTGGACAAAAT
CCTGCGTTCGCCCTTTATCAAACAGGCGGACGTATTGCAAGGCATCTACTTCTTCAGCGA
CCGTTTCAATATCGACGAAAAACGCCGCAACTTCGACTTCTACGAACCGATGACCGTGCA
TGAAAGCTCGCTGTCGCCCTGTATTCACTCTATTCTCGCCGCCGAACTGGGCATAGAAGA
AAAAGCGTGGAAATGTACAGCGCACGCCCGCTGGACTGGACACTACACAACGACACGAAG
AGGCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 815>:

GNMOP70F gnm_815

AGGATCCCCGCCGCTTCGGTACGCGCCCTGGAAATGTTGGCATGGCTGCCGGGGAAACTC
GGTTTCCCTGTCCCCGATGCGCGGGCGGTCATCGAAGGCCGTCTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 816>:

GNMOP96R gnm_816

ACGGACAAAGCGTGATGGTCGTCGGGCATCAGAAAGGGCGCGACACCAAAGAAAAAATCC
GCCGCAACTTCGGTATGCCCCGTCCTGAAGGCTACCGCAAAGCCCTGCGCCTGATGAAGA
CGGCAGAAAAAATTCGGCTTGCCCGTAATGACCTTTATCGATACGCCGGGCGCGTATCCCG
GCATCGGCGCGGAAGAACGCGGGCAGTCGGAAGCCATCGGCAAAAACCTGTACGAACTGA
CGCGCCTGCGCGTTCCTGTTTTGTGTACCGTCATCGGCGAAGGCGGTTCAGGCGGTGCGT
TGGCGGTCGCCCTAGGCGATTACGTCAATATGCTGCAATACTCGACCTATTCTGTTATCT
CCCCCGAAGGCTGCGCGTCTATTTTGTGGAAAAACCGCCGAAAAGGCGGCGGATGCGGCTC
AGGCTTTGGGCATTACTGCTGACCGCCTGCAAAAGCTGGACTTGGTCGATACCGTCATCA
AAGACCATTGGGCGGCGCGCATCGGGGATTCGGGCAAAGACCGCAAAAACTCGTGGACAT
CATCGCCGCTTTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 817>:

GNMOS68TRB gnm_817

TAGCAATTATTGTTTCGAAATAAGGTGATATTGCCATCCCGGCTGGCCCTGGCATCCCTC
ATGCGGGTGAATGCGTGGAATGTTAAGGTTGTAATTTTAAAATTGGTGAGTTCTCGATTA
CCGTTGTTGTTAAAATGTTCAAACCTTGTGTTGGTAAAGTCCCGAAAGATGTATCGCAAG
TTGCCCCCCACGAAAAAAGTTGACCTCCCAAAGAACTGGTCCCCCCACTGGCTTATACCA
CCTCGACCCTAAACTGGTAATATATCGTCCGCTATGCGTCCTAAAGGTACCCGTGTTGTT
GAGTAGGCTAAGTCGCCTCCGCGTGTTGAGCCCGTTGAAGGACTCAACTCGCCCTCTGTC
TAACTCGCTTAAAGGTCGTCTTTATACATACCCGTAGCAGCTGATGGTGAGGTGGGCACC
GCCCGAACTCAAATTGTGGGTTTGTAAACTGCCCCGTTACCCCCTGGTAAATGGAACACC
TCCTATGTAAGATCTGATAACCCCTCGCCCCGTTCGTGGCCCCGGATACTGTGTACCGGGA
GAGTAGGGTGGCCAAAGTGAGTAATGTTAAAACGATTTATGTTTAAACGTGGACGGCGTG
GACCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 818>:

GNMOT05TF gnm_818

GCGGCAAATCCACCTACATGCGCCAAGTCGCGCTGATTGTTTTATTGGCACACACCGGCT
GTTTTGTGCCTGCCGTTCAGCATATCGGAAAACTTTTGGTATTGTGGCGTAAGAATATCG
AAGCCTGACAGCCTGAAGCAGTTGTTTTGCTATTGTTCTTTAACGGGCGGGACGCCGTCC
TTCGGCGCGGCATTTCGGCGGGCCGAAACCCTTTCCGGTGAAAACGGATTTTGATTGCCG
CCCGATGCTGTCTGCAAGTTGCGGCGGCTTCCGTATGGTTTGAATTGTTGACAGGATGAT
TGGAGGGCTTATGCAGTTTCCTTACCGCAATGTTCCGGCTTCGCGTATGCGCCGTATGCG
CAGGGACGATTTTTCACGCCGCCTGATGCGCGAACACACGCTGACCGCCGATGATTTGAT
TTATCCGGTGTTCGTATTGGAGGGGTCGGCGCGCGAGGAGGATGTGCCTTCTATGCCGGG
TGTGAAGCGTCAAAGTTTGGACAGGCTGCTGTTTACGGCGGAAGAGGCGGTAAAGCTCGG
TATTCCGATGTTGGCACTGTTCCCCGTGGTTACGGCAAACAAAACCGAGCGTGCGCAGGA
GGCGTACAATCCCGAAGGACTCGTGCCGTCAACTGTCCGCGCCTTGCGCGAGAGGTTTCC
CGAACTGGGCATTATGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 819>:

GNMOT41TR gnm_819

GGGTATGCATGTTTGATTCCGCTTCTTTCAGCCACGTGCGGAAGCCCCAGCGTTTGAAAT
CGACAACCAGCTGCGCCCATTTCGGCGTAGTACGGCGCAGGCTTTCGATGCCGTCTGAAA
GCTCGGCGTGCAAGTCCACATCGGTTTTAATCGTGACCAAATCATACGACAGCGGCAGTT
GGGGCAGCGCGGCTTGCAGGTTTTCGCCCACTTTGCCCTTGATTTCCGAAGCGTGTTCCA
TCACACCAGCCAGCGAACCGTAGGCTTCCAGCCATTTCACCGCCGTTTTCGGGCCCGGGC
AATTTCGAGCTGAACGTCTATATGCCCGTTATCGCCTACAACCTCTTGCAATCCATCCAC
CTGTTGGGCGACGCGTGCAACAGCTTCAACGAACACTGCGCCATCGGCATCGAACTCGTG
CCGGnAAAAATCGACTATTTCCTGCACCATTCCCTGATGCTGGTTACCGCATTATACCGT
AAAATCGGTTACGAAAACCCGCCAAAGTCGCCAAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 820>:

GNMOU02TR gnm_820

AGGTTGGCTTGTGTTCATAAAAAACTTATTACATGTAACGGTTTGAACGGACATTCCGTC
GGGTCGGAATGTCAAAAAGGCGCGATTGTACCAAAGAAGTTGGACATAATTTTGTTTGCA
GGCTGAAGATTTGCTTAAAAATTCATTAAGATGGGCGGAACAAATAGTTTGGGTACAGCG
TGTTGAAATACCGCTTATCCCTTAAAATAGCGTCCGAAATTCTGTTCGGACGGCATCAAG
ACACACGGTAATCCGTCTGAACCCCCCATTTGACATCAACAAACAAGAGCATTGAATGAA
ATTCATCGACGAAGCAAAAATCGAAGTCGCCGCAGGCAAAAGCGGTAATGGCGCAACCAG
TTTCCGCCGCGAAAAATTCGTACCGCGCGGAGGTCCGGACCGCGGCGACAGCGGCAAAGG
CTGCAGCGTCTGGGCAGAAGCCGAAGATCACACCAATACCCTCGTCGAATACCGCTTCGT
TAAACGCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 821>:

GNMOU06TR gnm_821

GGTAACTGACGGATCGGGCATTCCTTAAATTACCCGTGTATCGCTGTAAATCTTAGAGAT

GGCGGAATATAGCGGACTGCATCACCGCCCGCCCCGATTCAACCATGGCGCGCCATGCCG
ACATCCACATCACGGCGTCGGTTTCCAAAGAAGCCTGCCCGCTGGGGCTTGCCCCGACCA
CCAGCACCACCGCCGTCATGGCTTTGGGCGATGCGTTGGCGGTCGTCCTGCTGCGCGCAC
GCGCGTTCACGCCCGACGATTTCGCCTTGAGCCATCCTGCCGGCAGCCTCGGCAAACGCC
TACTTTTGCGCGTTGCCGACATTATGCACAAAGGCGGCGGCCTGCCTGCCGTCCGACTCG
GCACGCCCTTGAAAGAAGCCATCGTCAGCATGAGTGAAAAAGGGCTGGGCATGTTGGCGG
TAACGGACGGGCAAGGCCGTCTGAAAGGCGTATTCACCGACGGCGATTTGCGCCGCCTGT
TTCAAGAATGCGACAATTTTACCGGTCTTTCGATAGACGAAGTCATGCATACGCATCCTA
AAACCATCTCCGCCGAACGTCTCGCCACCGAAGCCCTGAAAGTCATGCATGCAAACCATG
TGAACGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 822>:

GNMOU37TR gnm_822

TTTTTCACACGCAGTCCGAAACGTCAGACGGAGTTTGCGGTCGGACAGGTAAAATGGTGG
CGTGCTTATTGAAATTTCGACAAAGGTCGTCTGAAAACCGAAAATATGGATTTCAGACCA
CCTTTGTTGTATTTGGTAAGTATATGTTCCCGTTGTATAATTACGGAATTGCAATTCAAT
ACAAAATACACAGGACACGCCATGACAGAATCCATCACATGAGACAGTACACAATACGAT
GTCATGACTGTAGGCGCAGGCCCGTCAGGTTTGTCTGCCGCCATCACAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 823>:

gnm_823

ACACCGTCTTGTTCGGCGGTATGAATATGGACAAACAGACCGCCGACCTGCGTGCCGGCT
GCGAAATCGTCGTCGCCACCGTCGGACGGCTGCTCGACCACGTGAAACAGAAAAACATCC
ATTTGAACAAAGTCGAAATCGTCGTTTTGGACGAAGCCGACCGTATGCTGGATATGGGTT
TTATCGACGACATCCGCAAAATCATGCAGATGCTGCCCCGCCAACGCCAAACCCTGCTCT
TTTCCGCCACCTTCTCCGCCCCGATACGCAAACTGGCGCAAGACTTCATGAACGCGCCCG
AAACCGTCGAAGTCGCCGCGCAAAACCGGCATCGCAACTCCAAAGAGAAAGAACCCAAAC
CGTCATTCCCGCGAAAAATAGAAAATCAAAAAAAAAACCTAAAATCCGTCATTCCCGCGC
AGGCGGGAATCCAATCCGTCCGGTTTCCGTTTTTTTTTGAATTTCAGGTAACTTCCAAA
CCGTCATTCCCGCGAAAGCGGGAATCTAGAAACTCAAAGCTGCAAGAATTTATCAAAAAT
GACTGAAGCTCAAAAAACCGGATTCCTACGAAAACAGGAATCCGGAGTCTCAGGGCTGGC
AAAACCGTTTTACCCGATAAGTTTCCGTACCGACAGACCTAGATTCCCGCCTTCGCGGGA
ATGACGAAATTTTAGATTGCAGGCATTTATCGGATAAAACAGAAATTAAGCGTGACGAAA
ATTTATCCGAAATCACAGCAACTTTTCCGCGTCATTCCCGCAAAAGCGGGAATCTAGAAA
CTCAAAGCTGCAAGAATTTATCAAAAATGACTGAAACTCAAAAAACCGGATTCCCGCGAA
AACAGGAATCCGGAGTCTCAGGTTTGGAAAAACCGTTTTTCCCGATAAGTTTCCGTACCG
ACAGACCTAGATTCCCGCCTTCGCGGGAATGACGAAATTTTAGGCTTCTGTTTTGATTTT
TTGTTTTTGCGGGAATGACGAAATTTTAGATTGCAGGCATTTATCGGATAAAACAGAAAT
TAAGCGTGACGAAAATTTATCCGAAATCACAGCAACTTTTCCGCGTCATTCCCGCAAAAG
CGGGAATCTAGAAACTCAAAGCTGCAAGAATTTATCAAAAATGACTGAAACTCAAATAAA
CCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 824>:

GNMOV26TF gnm_824

GTGCCAACAAAGGCGAACCCCCGGAATGAGGCCGATACCAATATTCTGAAAAACGTCGAA
TCTGCCTTGCAAGACGCGGACATTACCGTCGGCAACCTCGAAGGCACGCTGTTTGACGAA

GGCGGTACGCCGGAGAAAATGTGCAAACCCCCAAAATATGCTATGCATTCCGAACGCCCT
CCGCATACGGGCAATACCTTGCCGACGCGGGATTCGACTACCTCAGCTTCGCCAACAACC
ACAGCAACGACTTCGGCGCGCAAGGCATCACGGCAACGGCGGCGAGCGGCAGCTCTTTTA
CATACTCGATCGCGCTAAAGCCGCTGCCGATAACGATGCCAAAATTGCGGGAAATACCGC
CATCGCCCAGATAAATTTGTCCATCATCAGACCTTTACTGTTCAGACGAGACAGCATTTG
CCGCACGTTTTGGGGCTTATCTTTCGATTTGCGCTACGTCGCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 825>:

GNMOX61TRB gnm_825

GTTCCGTCCTTGATTCGATTGGTCGATAGTCTAATACTACGATCCTTGTTGAGGTAGATG
AATGTAACGTGGTAGAAGACGTTGTTACTTGTTGTTCGCCCACGGACTATCCGAATGCGG
ATGAAGAAATTGTTGATGCATCGGCCTAGGAAGGCCCCGTAATTCCGGAAGAAGCTGTTC
ACGCCTTCGTTGTTGAATCGTCCGTTACCGAAGGACCCGATGAAGAAACTGCTGACACGT
CTTGTAATTGTGTTTGTGACGTTACTTCGATTACGGTGACCGTTGTTGAAGAAAAAATCGG
GTGAAGCGCTTGATGACACGTGTAATTCTGAAGGTACAGACGTTGACACGTCTTGTAGTT
CCGTTGAAGTACGTACCATTATTTGTGATGATCCGGTAGAGTCCGTCGCGGATGAATCGA
CCGAAACTATTGGCGCAAATGAAGAAATTGTAAAAGTTGCTACTTCGATTGTATGTGAAT
ATCGGCCCATTGAAGATAAACAAAGGGGGCATAGACGAGCAATATAATTGCAGAATAACC
CGTTGTTGAGTCGAAATGTTTTGCTGAAGATTCGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 826>:

GNMOY35TRC gnm_826

AAAATTTGGACCTCTCCTCAAGTGAACTCCGTTCCTATCTAAGTCCTCCTTGTACTCCCC
CTAGCCCATTGACAAGCGCGAACGTTCAAAGTTCTCCTCCCTCTCAGAAAGGAGGCGACT
TAGTTGTAGGCCTTTTCATGGTCATTCCGCCATGATCCTATTTTAGCTACGAAGTACATT
GCGGCAAGTGGATCTTCCGCGGCCACTTCATTCATCCTCGGCACTTTTTATCTTTACGGC
GCGATGGGTGGCGCGCATAAGATTTGGGAATGCACCTATTGTAGCACGTCGATTCGTGAC
CATCAGTGACCTTGATCCTACGTATCTGAGCCGTAGAGCGTAACTTGGATCATGACTGGC
CCCGCGAGACCGGTCTTGTTCTGTGGTCCGGTCATTTCTCGCATTGATTACCGCACGATG
CGCGAAGTTTCGGCTACAAGGGTTACGAGGATCCGATGCTACTTTTATTCCTTCTTGGTC
CGCTATTGGTAGCTCTACCAGAGCGTTTAATCGAACGACGGTAATCAACGATAAGGGCCG
TGTCTGCCGTGGGATCCAATTTAATACTCTATGATATGAGTCGATGATAGTTACGTAGTA
TTCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 827>:

GNMPB01TRB gnm_827

ACACTCTCCTAACACTCCTGGCTGGTACACGTTGCTTGAATTGGGCCCACACCCTAGATG
GTACCCCGGGACCACCTGGACCCCCGTGCATCTGAAGGTCGGACAATGATGTCGATTTCG
TTGGACCCGGAAGTGGACCCCGTGTTGGACCCCGCGTCGTTGTCGACGGCACAGATCCTG
GCCCCGGCGCCGCACGCAACTATTGTATTCCTGGTGATACTGTTGTTGTGTCGCATCCCG
GTACCATTGGCCAAGATCATGGCGTCGTTCGTAGACGAACAAGTAATGCCGCCCGTTCGC
TTGTGTATTGCGTTCCCGTTGTTGCTTAACGCTCGGTCGAAGTGGATCGGTGAATTCCTT
GTTTCTATGGACCTGTTGTTCCCGTTGTTGTGCGCAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 828>:

gnm_828

GGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGGCACGAGCCCA
CAGTGAGTTTCCCCCACACTCGGCTCCTTGGAGCCCCGACAGTCCATAGCACCCCAGGAG
ATGTCTAACCTTAGGGACTTGGAGGCCTCCCAGGGGTCTAGGCCAGCTGAGTTGTGAAGT
TGCATGGCAGGGACAGGGCAGGGCCGAGGCCAGGGTTGCTGTGATTGTATCCGAAGTAGT
CCTCGTGAGAAAAGATAATGAGATGACGTGAGCAGCCTGCAGACTTGTGTCTGCCTTCAA
gAAgCCAsACAGGAAgGCcTGCCTGCCTTGGCTCTGACCTGGCGGCCAGCCAGCCAGCCA
CAGGTGGGCTTCTTCCTTTTGTGGTGACAACGCCAAGAAAACTGCAGAGGCCCCAGGGTC
AGGTGTAAGTGGGTAGGTGACCGTAAAACACCAGGTGCTCCCAGGAACCCGGGCAAAGGC
CATCCCCACCTACAGCCAGCATGCCCACTGGCGTGATGGGTGCAGAGGGATGAGGCAGCC
AGGTGTTCTGCTGTGGTTTGGGAGCCTATAAAGTGAGACTAGGCTGGGCATGGTGGCTCC
CATCTGCAAAACCAGCACTTTGGGAGGCCAAGGTGGGCGGATCGCCTGAGGTCAGGAGTT
TGAGACCAGCCTGGCCAACATGGTGAACCCCCATCTCTTAAAAATATAAAAATTAGCTGG
GCATGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCACGAGAGTCGCTT
GAACCCGGGAGGTGGAGGTTACAGTAAGCTGAGATCTTCCCACTGCACTCCAGCCTGAGC
GACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAACTCGAGGGGGGGCCCGGTAC
CCAATTCGCCCTATAGTGAGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 829>:

GNMPE45TF gnm_829

TTAATCAAACTTTAATTCATTATTAAATGCCTGCAAAAATATATAAAAGCGGGTGGGTTT
TCCCGACAAATAGTTTTAATTGGAGCAGCTATATTTTTTTGGTGCATGCGTAAAATCTT
ATTTCATTATTTATTTTGAAAAATGTATTAAAACAATAATGGAATTGGATATTGAAATAT
CAGGTTTTTTTGAATTAGATTATTATGAAGATAATTATAAAGTAAATTGGAAAATAAATA
ATGGAAATTTGATACAAACGACTAATTAAATGGACAAATATAAGTTAGATTGGACACCCA
AACCTAAAAACTGTCTGAAACTCAATTTGGTTTTCAGTAAGCGTAGGTTGGCTTAAAAAC
CCAACCACCAAAATGCCGTCTGAAGCGGTATTCAGCTTTCAGACGGCATTTTGATGAATG
AAACAGGATATTGAGAACTAAGTTCTTTAAAAATCCTACACCTGCTCCTTCCACGGCAGC
ACCTTGGTCAAAACGGCAGACGGCTACAAAGCCATTGCCCGTATCCGAACCGGCGACCGC
GTCTTCGCCAAGGACGAGGCAAGCGGAAAAACGGGATACAAACCCGTTACCGCCCGATTA
CGGCAATCCGTATCAAGAAACCGTTTACATTGAAATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 830>:

GNMPE65TR gnm_830

CCCGCCCATCATCGTACTGCCCGAAAGGGACGTACCCGGAACCAGTGCAAACACTTGGGC
AACGCCGATCATCAAGGCATCAATCGGACGCAATGCATCAACATCGGCAATTTTAGGCTC
TGCTCGGCTTTGGCGTTTCTCCACCCACAAAATAAAAAAACCGCCCAAAACCAGCATGAC
TGCAACACTCAAGGGGTTAAACAGATACTCTTTGATTTGTTTGCCGAACAACAGCCCCAT
CACGGCGGCAGGTATAAAAGCAATGGCAAGATTAAGGACGAAGCGGTTGGCTTTCCGGTC
TTTTCCCAAGCCGTGCAACACATTGCTGAAACGTTGCCGGTATTCAAACACTACCGCCAA
AACTGCACCGAGCTGGATGGCAATTTCAAAAACCTTGTGATTGCTGTGAAAACCAATCAG
ATTGCCGAGTTCAGGCTTCATGAAGCGGAGGTCAAACCGATCGACAGGGAGAAGGTGCCG
GGGCAGGTGCGGGAAAAAGGAAAAGTTTTGCAGATTGACGGCGAAACCCTGCTGAAAAAT
CCCGAATTGTTGTCCCGCGCGATGTATTCCGCAGTGGTCTCAAACAATATTGCCGGTATC
CGCGTTATTTTGCCGATTTACCTACAACAGGCGCAGCAGGATAAGATGTTGGCACTTTAT
GCACAAGGGATTTTGGCGCAAGCAGACGGTAnGGTGAAGGAnGCGATTTCCCATTACCGG
GAATTGATTGCCGCCCAACCCGACGCGCCCGCCGTCCGTATGCGTTTGGCGGCAGCATTG
TTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 831>:

GNMPE66TF gnm_831

GCTTCAGACGAGCCATTTATTATATGGAGATTATAGTGGATTCAGGAAGCGCGTTCTTTC
GCGCGCGAAGACGGCAGGCAGTTTGTCGATGCCGACAAAATTATCGCCGCCGCCTACGGT
TTGGCGTTTTCTTTGGAACACGCTTCGGAAACGCAGGAAGGCGGGCGCACGTTCTGTATC
GCCGATTTGAACATTACCGTGCCGTCTGAAACGCTTGCCGATGCCAAGGCAAACAGCCCC
CTGTTGTACGGGGAAACTGCTTTGTCGGATATTGTGCGGCAGAAGACGGGCGGCAATGTC
GAGTTTAAAGACGGCGTATTGACGGCAGCCGTCCGCTTCCTGCCCGTCAAGGACGGTCAG
ACGGCATTTGTCGACAACACGGTCGGTATGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 832>:

GNMPF05R gnm_832

ACTATCTTCTAAAGGTTCACTTTTCTCCAAAATAGAAAAGGCAGCTTGGATATTTTCAAA
TGGCAGGGAAGGCAAATCTTCAACGAGACTGCCACAAATAGCGACAACAGGAACTCCGAC
AAGGGTTCTTTTTGCTACACCAATAGGCGCTTTCCCTGCTAAACTTTGACGATCTAGTCT
TCCTTCACCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 833>:

GNMPF17F gnm_833

TTTTTTTTTTTTTTTTTTTAAAAAATATCATTTATTCTTTTATAAACAATAGCAATAAAT
TTATTATATGTTAACAGCAGAGTGATGACATCATCACGTATCACATAGCTTCTGGAAAAT
TCCACCATACACTTTTGAGAGAAGGACAGATAAATGGTCGATAACATCTTAGTATTATCA
TGGAAAAGTTTTGATCTTATAGACCCCTCAACACCCAAAAGTCGTAATCAGTTCTACTCA
AGTAAGATTTAAATATATATCTATATTTTCTGGTCTGAGATTCTTTTCAACTTTACTCAG
AAAACATATACCTGAAGGGGGAGGGGGAGAGTGCACAGATGAGTCTGTTTGTATGTGGAT
GGTCACAGAAATGACAGAAAATAGTTATTTAATCTGAATCTGGACCCTGCTGAAAACTGC
CGTGATTTCTCATAACACTCTCCTGCCCCTTCAGAAGTGAAACTGGCTGATAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 834>:

GNMPG84TR gnm_834

CGATTATTCTGACAATCAGCATTTTCAGAAGTATGCCTAAAAGTGGAATCAGACCGGCAA
GTAATGGCATTTATTACCCCTTGAACGAACCGAAAACGACAAAAGCCGACATAATGATAA
AGGCGAGCAGTACGGCAAAGCGGATTTTTTCGGCGTGCACGCATAACGGCTCATAGCTTG
CCTGATATTGTCTACCGAAAACATGAAAGGTTTTCGGCTGCGGACATACGCCGTTAGACG
GTAAAAAGTTATGTGAAGACCATGTCGTATCGTCTATAACCTGCGGTATGCTTATATCGT
GAAACATGCCGTCTGAAGGTATGCCCATCTGCTGACAGGCTATGATTTCCGGAAAATAAT
CGCACAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 835>:

GNMPH28TRD gnm_835

CGACGTTGAGTGCCCCCTTAACTTAAACTCCCCCGTGATAGGGTGCCGAAAAACGTAACT
GGTGAATGCTTGTTGGAAATCGTTAATATTGTATTGTTTCCTCTGCTTAGCGTGTTTCGT
AAAGTACTTGGTATCGTGCTAGTTAAAGATCGTGTTGTGGCTCGTTGTACCCCTGCGCCT
GCGTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 836>:

GNMPH38TF gnm_836

GCGCCCGCCAAACGCGGCAAGCGGCATACCGGCGCCGATGACTTTGCCCATCGTGGTCAG
GTCGGGCGTGATGCCGTGCAAAGATTGCGCGCCGCCGAGCGCGACGCGGAAGCCGGTCAT
CACTTCGTCGTAAATCAACACCGCGCCGTATTTTTCGGTCAATCCGCGCAAGGCTTTGAC
AAAGGCTTCGGTCGGGCGGACGAAGTTCATATTGCCGAAGAAGGGTTCGACAATCATTCA
AGCCATTTCATTTCCACTGTATAAAGTCCGGTCATTACCTGTGCTTTGCACCTCTTGGAA
ACCGGGCAACGGCTCAGTGGCAGGGTTGGCAACCAAAGTAACCGTATCGCCGACTTTCGC
CTGTCCCAATTCTTTTACGCCGGTATTCAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 837>:

GNMPH48TR gnm_837

GTCCGATTTGCCGACnAAACCGGGCCTGAAAGTGGACCTAGAGGGAAGAACGCGTTAAGA
GGACAACTTCGAGCTGTTAAAGACACCTGCCTAGGGGGTAAATGAGTGGTGAAACCGGTA
TGGGGTGTTAAAAGACAAAACCTACTGGCCAGAGGGGTAAAGCCTACCCAACCTAAAGTG
GTAATCACATGCTTATAAAGACTCATAATACCAATGTTCATACCCCGGTGGGGGCTGATA
TTAAGACCTCTGGGTTTGCTGAAATGGGCATCAGTGACGTGGTTGGTATTAATCAGAATT
AACGTAATAGTGCATATGGGTGGAGTAAACGTAAGTAACGTTACCTACCGCGTAAGGTTA
CAGATCAGATGGCTTGCACTAAACCTCTATAAATTATTACTCAGCTTGTTATTACTGTTG
CTGTTGGGAACGGGGAAGCGGCTACCCCACATGGGGGTAGAAAAAGTGGCGAGGCTTGCA
GTGATCCTTGTAAATAGACGACAAGTTAATTTGGGGGCTGGCTTAAATCGAGACCGTCTA
TTGGCCGCGTTATAGAACCCATGTATAATAGTGCTGAAAAGATCAAGCGCAATAGTGGTA
CCAAGGGTAGACTCAGGGGTGCGGCAAATACAACTGACCGGGACGAACCAGGCATTCTAA
ATCCCGAAACTAGGGnTAGTTGTAGTAGAAAAGGCAGAATTGAAATTACTACTAAGTTTT
AGATTGnTAGTAGGATGCCTTCGATTCnTAATCTTAAGAGACAGnGTGGGAAGGGTGGCA
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 838>:

GNMPI02TR gnm_838

AAGAAAACAAACCTCGCCCCCCCTTCTACGCCCCAGGGAGCGACCATAAAACGAAACTGT
CGACGCGACCACACTGGACGTCGCCTAAGTGATTCGAAAACAGAATCCCCCCTAGGTCGT
TCCCGCAGCCAATGGCAGAAACCCAGATAAACTTTGACCGTGTATCCCCAATATACTCCC
TCCACCGTGGACAGAACATCAAGCAACGACAAAGACGTCACCGCCACCCCAAGGATGCCA
GACCGACCACGAACAATTTATAGCAAGAGAATTTACCATACCACGAATGTTGTATAATCT
GATTACATTGTTAAAGCCCCGGTCGAAACGTCGATCCCTAAATAGTTCGTTGACGTTGCT
TCTCTTGTTCACCCGTGTGAATATAAAAAGTCTGGTAGCTAAGACTGTTATGCAAACTGT
TGCAAATTGTTCCCGTTGTGTCGTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 839>:

GNMPI04TR gnm_839

TTGCACCGGGTAAACACATTCTTGACACCACGCTCGAAAATGGACACCTTACAGAGTAAA
GTGGCCCGGAATATCGTTAACACGTTGATGATGGTAGTGGCCCTGCGCGTAAAGCCTTTG
AAGGATGTCACCCTGTCACGGGTGATAATTGTGATAATAGCGTTGACCTGTGTCATCGGG
GACCCGCGGACGATAAGTCGGCCGCTGGTAAGGTAACGCCTACCCCGACGAATCCTGGTG
ACCCTGGTAGGCTTGGCATGGTAACTTGCCAGGTTAGGAAGTTAAGAACGTTGCTCGAAA
ACAGCCCTAGATGGTACCCGTCACCTTCTATCCCCATAGGTGAGCTCAATGCCGCTGGAC
CCCTTCATTCACTAGCTTAACACATGTAGGCCCCGTATGGTGAATCGTTAACACCGTTTC
GACGAAACTAACGCGAAGATCGTTGCCCTAGTGAATTGAGGCAAACCGTTGAAAGTGCTA
GTGTTATTTTCGTTTATCGTATGTTCCTAACTGGCCCGTTTAATTTGAAACAACTGACGA
ATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 840>:

GNMPI06TR gnm_840

TTTGCGGGTCCCGCTCCCGGTAAGTAGTCTGCTGTGGGGTGTGACGCCGATGACACCTTT
CCGTCGGTGTACACTGAGGCCGTGTGTTCGTACAATTAAACTTAAAGTTCGACTTTAAGG
TATACTTCCGAGGGAGAGGGCTACCCCGTTGCCGATGGAGCTGTCGGTAATAACGCCTAC
CTTGGACCTCCCCGTTAAAACTCGTAGGACGGCGTGGACCCTGATACTCCGGAAGCTAAG
GGAGACCCCTTGGTTCGCGAAGGCCCCGGGTGTACCGCCTATGTTGTTCGATCTGAGGCC
CCGCCCCCCTGGTAGGATCCGGAAGGCAAAGCACTTGGGTGTGGTGGACCCGCCGATGAG
CCTTTAGCCGTTGGTCGCCGCGACAACTAGTCGGGCGCTGTCACCGAGGTGCCCTAGTGC
AATTCCCCGAATTGGCGCCCCAAAGCTCGTTATACTTAAATCGTGCCGGAGTGCGGCTGG
TAAGGCACGGCCCCCTAGTGCAATGACGACGCGGTTGCGTCGCCGGTCGACGCAGGGTCG
TTTGGTAAAGTTTAACGTAGTTAACCTGACAACGTTGGTACCCCCGTTGCTCCCGTGGAA
AC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 841>:

GNMPI11TR gnm_841

GTTCCCCCTAACACAATCCCGACAAGAAGGCACGGTAACGATGTCGACAACGTTGAGCAC
TGTGATGATCACTACTACTCTAACTAACGCAAATTTCCCCCGCCTTACCCCACCATCTAC
TACCACCGTCCATACAAGACCGAAGGATGATTATGGCACCGGTACCTCCATTTTAAGTTC
CGGTAGCAATTTGACAAATACCCCTCTTGCCTCCTATGTTTAAACACCTGACAACACAAT
GCGGTACCCCGTCGATGTCCTCTGCGTTCCCTCCACACCTTACTTTCCCTCCGCTAACGT
ATAGGCTGGCAGAACCCGTAGGGTAAGAATGTCCTATTGTTCTAATGGCGGGTCCGTTCC
GTATTATGACACCGCTAAAAGTTCTCCTACCACTACCACCCGCTTGTATACCTATCGTGG
TATATAGATTCCCCTTATAGCCCCTGTCAAACGCAATTCCATCGCTTGCACTACACCTTA
AACTTAAAATTCGAAGCCTGTTCCTTTGTAAAGTTGTTCTGGTTAAAGATAAAGTTAACC
CTTCGCTCGACCTGCCGGTATCGACTTGTCGTCTGGCACCGCAAGATCGTGTGGTAGCCA
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 842>:

GNMPI15TR gnm_842

GGGCCTAAGGTGCGACCCCTCTGGATGACCCGATCACGGAGGGTGTGCGTGGGGTAGGTG
GTACTAAAGAATGTGTTTGTACCCTTCCCGAGGTAGGCCGTGATACTGCTTCTGCTCGTA
ATTGCTTTGATTCCGCGGACGAATCGTGTGAAGACCCTTGTACCTTCGATAACTTTATCC
CGGTGTAATGCCGGTAACACACGGTTAATATGTCTGGTAGCGTTGTTGTGTAAGTTGCGA
CGTAGATGGTGGACCCTTAAGTGGTGTAAGTTCCCGCCGTTGGTTCCGTTCTGTTGTAGG
ATATGGTGGGTGGTGCGAAAGCTGGTGAAGTTCCCCAAATTGGTCGTGCCCTAATAACTC
GTTGACCCTACTAATTGCCCGCTAGGGAAAGGTAACGACCCCCCTGGCTAGGCAGAAAGC
CACTCCACCGAACCATCCAAAGACAACGACGACCACTAATATCGCACCTAAATATAATGC
CCCAAACTTGTTTGATATGTGGTAAAAAGGTAAAATGGCACAGGTATGTTGTATCCCCCG
TGTCACAACTATGTTCCATCCAACCTGGAACGCAGTGTAATTTGGCAGTGTATCCTGCCT
GGGATGAAAGGGGTGGAGGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 843>:

GNMPI18TR gnm_843

TTCCGCCTCCTTATGTCCCTTATCCTTAAACTTGACATTGTTGCGTTAAGTATGGGACTT
TAGCCTATTAACTGCCCGTTGCGGCAAACTAAGTTCCGTCTACATAGGTGTCTGAATATC
CTGGCCATGGCCCTGGTGTGTATGCTGCTTACTGCGAAACATCTGTCTGCTTAGCTGGTA
GAGTAGTTTATGTGGTGTACCCGCCGGGCAACTGCGTTGCTGGAAATCCTCCCTTACCTT
TATATCCCTCTTAAAAACCCCCTGTGATTTAAGCTACGGTGGGATATGCCCCGTGTAGTA
AGTCGATGTCTAATTATAACTCGTGCGGTCACGTTTGTGCGGCTCGCGTTGGGAACTTAG
GTGGCGCCGTAGTTCCCTACGTGGCAGCAGTGGGCTAGATTGCTTACAACGGCCCGGCCG
AAGGTACGATTTACGCGTAGTGCGTTGGCCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 844>:

GNMPI22TR gnm_844

TAGCCGATAAATGGTCGCCGCCCGCCTGTTACAAGTTGTAACACTAAGCCACAGTGGACC
AAACCCAAACTAGGATAAGGTAATGAAGTTGTAGATAGCATAAACAGCATGGTAAGGTGA
GACAATGTTGCATCGGCCCAAACCCAACTTATCACATAGACAAATAACGTTGCTCGAATG
TAACGCGCCTAGATGGTACCCATCCACTTATAGGCCCGCCTAAGTTCCAGACCCCGTTCG
TGAAGCACCTTAAAGCGTGGATGAGCCGGTAGGCGCAGGATACCCTGCCGCTGCATTAGG
TAATGGCCCCTATTAACCGCCCGTTGTTTATGGCTACTATGTGGGCCCGGGCTGTACTGA
AGAGTGAGTTGCACCTGACGTTGATAATGCTGGAAGAAATGACCCGACTCCTGCCGCAGT
TGCAAGACCTGTCGGTGGTGGTCCCTACTGTGGTGCCGACCCTCCTCCCGGCCATAGGGT
GCCTGAGGACGGAAATTAACCTGGCTAGTGAGTTGTCGGTAATAGGGATGTGCCGGGTGG
AGTTGCTGAGCCCGTTGCCTAACCTGGGGACAATTAGATTGACGGTTCCGGTGGTATTGG
CGTCGCCGGGTATGACGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 845>:

GNMPI23TR gnm_845

AAAATTTCGGTGCCATTTAATCCAACTGTTCCGTAGTATACTTTTTCCCTGTTAAGTCGG
TGGCAACAGTGAAAGAGGTTTGTATTGACTGTTTCCTTTAATAGCCGTGTAGTTCGAACG
GTGAACGGTGTTCGACGTGGCACCCCTCTTCCATGTACTCGCGTGGCACCCTATATTGTA
CACGGCGTATCTCTAGCATAACTCGTCTCGACGTTGTACAGCCAAGTTAGTTTTCAATTT
GTTAATATTTGCCGATGTGTTTCGATGGGTCCGCTCGTCTTTGGTACTTGTCCATAGATA

AGTCGCGATTGCTCTTGGGAGTCGTACGCGCTAGAGGCCCCTATTGCTACTATTGAAATG
TGTGAGCATGAAAGGGTTCTGCGACATGTTCACCCCCACAGGCCAACGCTACGACAACAA
CGGCCCTCCAGATGCTAGGCGGTATCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 846>:

GNMPI27TR gnm_846

TTCGTCAAACCAAAGnACAACTACAGACACGGCAGGGCAACCAGAGAAATATTCCACACC
GACGCAGCCGTACTCGACGCCAAAAACAAACTTACAAGACCAAGTCCGGCCCGCGGCACC
TACCTACACGTCTTACGCGTTAACCCCACAAAACCCGTAAAAAAATTCGCCAAAACCCAC
CCCCACAACTAATTCTAAGGAGACCCCACAGACAACGCAACACCCGAAACCAACGACGGA
AATAAAAGCCCGCATCCGCCAGACAAGCACAAAATACCCCCCTCCACCGAAAATAGCGCC
CGCACTGCACCAACCACCCCACACCCAAAACCCAACCCGTCCCCACACAGGATCCATCCT
AACGAGCCGGAACAGCCCCGGCAACCCCACGAGTGTATGTCTACTTGTGCCAGTAGAACC
CGGAAACACGGCCGTCAACCCAGCCCTCGTAAAAAACGAGAAAGACACTCTGAAATGCAA
CGAACACCATAAATAAGTCGGCCACAGCGTACCACCAGTACCCGGCAACCCGGTCAGCAA
CACCGTATTAGGCAGCATGCTACTGTACACCGCAAATGGAATAAACGTTCTCGCGACCGT
AAGTTGCTCTCTCGGAAACACACTCCTAGTCACCTAGGAGTACAAAGACGGCAAAGCCAA
CACTAATTGCCCCTAAAACACCCCAATGGACCCACACCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 847>:

GNMPI28TR gnm_847

AAATATAATCCGTTTAAACTGAAGAGGCCCGGTCGGTCCGTTAAGAAGAACCGGAATAGA
CCGAAATCGAAACTGAGAAATAGCCCGTTGAGTGACAAAGAAGTGTGGGTAGGGCGTCCA
CTCCCGTTCGTTAACAATGGCACAACCTGGGTGCCACTATTGGTCCCCATTGGCACAAAT
ACTAGATCCCCCGTTGATCCGGGCTCTTCGCTTTCCCTTGGTGTGGTGGTGTAAGTTCAT
GCACATTACCGTAATCTAAACGGTAAAAGTGCACACATACTAGTTTTAGTAGGACCGCGT
CTTGACGTGGACCCATTCAAAACTAGTAGTTACTAGGGAGGTGGACATTGTTCGAAAACC
AAAAAATCTAGCCAAGAAGTTAAAACATATACAGAAAGCAAAAAGAAAAATAAAAAATTC
GTTGGGCAAAAAGAATAAGTAGGTCGTTAAAGTTTTGAAAGAAAACTAAAAGTAATTAAT
TGAAAAGAAAAGTTTGCAAAATGTTAAGAAAGTACCATAAAAAACATTAAAAAACTAAAC
GACCACTTGAAAACTAAGTATACCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 848>:

GNMPI29TR gnm_848

CCACGGCCCTCAACCTTAGCGACACCACTAATCCCACCTAGACGGGCACCCTAAAACTAA
TCCGTCGCACTCGCTACACCAATTCCTACCGCCCCCCACATACACGGGCATCCCCTCCCA
CCCAACCTACTCGAAAGAGCTGGCAGCCCCCGGCACCCGGCAACTTTAATTACAACGCCC
ACCGGATCGCTCGAACGGCCCACTCACAAACTCAGTGCGTACAGCCCAGGCGAAAACGCA
ATCTTATGCCTTAACCGAAGAAAAAGACCGCTCGAAAATCAAACCCAACCCTAGACGATT
CCAGACCTGGACCCTAAGCGTAATATCAGCGCACCAGCGGCCGGAATAGACCTAAGAACA
AAATATCCGGTGCCCTGCAGTTAAGCGCCCCCTCCGGCTGGCGGCCTAATCTACTCCGAA
TTTCGTGCACTCTTTGACTATCGACGCCATGGAAACTGGCCCGCCCGGGGAAGCACCGTT
GGACGAGCTTGCCGGCGCCTCTACCTAGTTTCCCTCTTTAAGAACGGCCAGGGTGATAAA
AACAAGCTCTTGTCCCTAACGTCCCGGCCACCCCGGCGCGCCGGCAGAATCTCCCGTTGC
CACTTACGGCAACGGCGCGTATTTCGCTCCCACGCGTTCCCCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 849>:

GNMPI31TR gnm_849

GCGTGGnCCCCACGGTACCCCACCGAAGGTGCGCCTGACCCGAGCGAAAAACGCGCCCAG
CCCCACCCTAGTTCCCGTTCGACCCTACTAGAAATGGCAACCCATTTGGGTAGCACAGTT
GTGTGGACCATTTGGTACAGAGCTTGAATGTTAACACCCCCGACCGAGTAGACCGGTCGT
GGTAAAGGCAATGCCAATACCCCCACGGCCTTAGTTAAGTACGGTACTAATCTGGGTAAA
GTTCGGAAGTGCAGCTATCCTCCCACCCTCCGAGCCGCAATTGCAGTGCCCGTTCGCATT
GGCCATGTTGACCCTGTTGCAGAGGCCCCTGGCTGGGGCACAATGGAAAAATAGGCCGTT
GGCAATGCCGTCGGCACCACCTAAACGGACGTTTATCTGGCTGGGACCCCTCCCGCTCCT
AATGATCCCTGTTCGTACTATGTTTAATGAATTGTGTAGACAGAGCCCCCCGGGGACGAC
CCGTTTGACGGTGGATAACCTTATGTTGTGTGACTGGCGCCCGTTGTCAATTGTACAAAC
ACAAGGGCCGCCCCCCGGACTGGGGTGGCAGTGGACACCGAAGTGCCTGACCCGGCAGGT
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 850>:

GNMPI32TR gnm_850

TTGCCTTTGTTGCGTGTGCCTGTTTGCTTGTTTTGTATCTGTTGCCCTTTCGACCTCGTC
GGGCACCGTTAAAAAACGGCGGTCGGTGGGGACGTCGGTGGAAAATCGGGCGCTGTTTGC
ACCCGAAAACTTTGTTTAACCTGATGGTCGGGGTGCACCGGGTGGTGCGCATGGTCACAT
TCCTTAATCTCCCCCAGATCCCCTTGGACACCTTGACCCGGCCACTGGTACGGTGACGTC
GTCGGGTCCCAGGTCGTTTAAAAACCCTCTTGTATTGTCCTGCGTCCCAAATACTTGTGT
ACCCCGGGATAAACGGTATACTAGTTCCCTTATTCGGACATGTGATCATACTCATACTTT
TCCGGGTGGTAGTAAAAAAGGTCCCCCATGGATATAGTCTAATTCGACGGTGGTAACGGC
GTCTCTAGGTACTCGGTATGGTCATGGTCGGAATCCTTCTACCCGGGGTGTGTCGTATGG
TATGGTATCGGCGTCGTCTAATATGGGTGATTGTCACCCTGGATGTGATGTGTCACGTTG
CTCGAAACATCCTGTGTTGTCTCTACGGTCTACCATTCCTTACCCTGCTCGTTCCAGTCC
CGCTGCTCCTAACATTGTAAACTTTGATGACGCTAGTGTAGCCCCTAGCGTTTCTCCCGT
TAACGTTAATGGTCGGAACGTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 851>:

GNMPI33TR gnm_851

GTGCAGTTCCTGACACGCATGGTACTACGCCTAATAATTACTTGGATCCGTGTTGTACTT
CGATTGACCATGGTCCTGCTGGATACTTGCCTTGTAAAGATCCTTTGACCCTTGGTCACG
CGGAAACGTGCCATGATGAAGAGTAAAAATGTGCGACCCATTAATTCGCCATTACCGAGT
TGTGTGAGACTATGTTGTGCACTGCTTGCGAGGAGAATCATGGCGGTTAACAAACCAAGA
AATCATATTACTAATCCTGGTTTGTAATATTTCGTGGTGTATGGTGCACCGTGCACGACC
CCGGAGTCGGATGGTGAATAAACTGCTTGCGTTGATTTGTACACTGGTTCTCCGTATTGA
GGCATTTGAAAAATCGGTGGAAATTAAAATTCACTCGTAAGTTTCGTTTCACACGGATTG
TCCGGATCACGCCCTTACGACGGCTAACGAGTAGGTGCACCGCCCGGTAGCAGAAAAATC
CGCTGGCACTGACGCGTTTACTTGTGTTTAACATACnTGTGCGACGCCCGTTGAAGCAAT
GTGTACTTCTAACTATCCGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 852>:

GNMPI34TR gnm_852

TCCACTCGGATAATACTTGTACTACTTCTATGTGTATTAGTTACTTTGTTAATACTGGTC
TCGTTGTGTGTGTGACGAAAATAACGGGCTCGTATAAATCGATTACTGCTGTTTTAAACT
CGACGGTAATGTTGACGATGGAAAATTTGTTTGCGCCCGATTTGGAGTACTTCTAACTGC
CCAAACCATTGGAAGAAAGTCCTACTTCTGTCCTTGGTGTGGTAGATGCCCTGGAAAACG
TTATTACCGTTGTCCTCCCGGATGAAGTTTCCGTTGATATTATTACTGTTCGTGTTTCGA
TTAGTTGATGATGTGAAACCATCGTGTTGGCGTAAATTTTGTGTGACCCGGCACTTGAAC
CATCGTAGATTGTAAATTGAGGTGAGAAAGCGGTATCGGCCCCTGGTAATGAGATCCCTG
GTCCGAGTACTGAAGAAGCTTAAGTTCGTAATTGATCGACGATTACTAATGGTAACTTTG
ATCACCCTCTGTCTAATTCTGTTTAAGTTGCGTAAGCTGCGCGTCATGAAACTCCTAGTT
AAATTGGCCTGTTTACGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 853>:

GNMPI35TR gnm_853

CTGGCCTTTGCCTGTTGCGGTGGGGGTGCCCGATGATGATGTGCCCCCCCGTCGCCCGGT
GCGTGGCACGTAGGAGCGTTGTCCTACTCCGTGTCCTGTTGATGAGTTGGCGGAAGCAGG
CTACCCTCCCCCCAATGGTGGTATCCCCGTGGTGCCTGGGACATACGGGGCTGAGACAGA
TGACGCTGGGCCCGTTCCGCGCCCGGATAAGCGTGGGTACCCGCCTGGTGGTGCCGTTGA
AACGGAGGCCGACGCGTGTGGTGGCGCCCCGTGCCCTGGGACCGAGGAGGGTGTGGTGGA
CGTTGCTCGAAAGTAGGTAGGTGATGGTGGGACGCCGTCTGAAGGTGGCAATGGTTAGTT
TGAGTGAGGTGAGGATGAAGTCGCTGTGTTTTAACTTCGTGGCCGTGCCTTAAATGGCGG
GGCGTGTGGCGCGGCCGATGGTCCCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 854>:

GNMPI36TR gnm_854

CTGGCTTTCGTAGCGTTAAACTTAAAGTTCGCGTGTCGAGATTGTTGGCCGTGGTAGAAT
TGGTACTGTGGGCCCGTAGGGAACGGGCAACTGCTGAAAACAATTGGTAGGCCGTTGTAA
GCTCGCCCTACTATGTTGAAATTGAGTACACTGATAATGAGGCCGCTGCAGTTGAAGTCG
TCGTTGTGCCTGTACAAAACTAGCCCTTTGCCGTTGGTCCTGCGGAACCCCCTTATAACG
CCCCCTACCCGAGAGGGGTCGAGGAATCGAGGCCCCCCGACGCCGATGATGCCGTTAGCC
CCCGTTACGGTAATTATCAAACTGGCTCGTTGTGTAAGAAAGGTGGGAAGTCGGACGATA
CTGTATATCCTGGTGATGGGCCGGTATCGACGGGGCCTGCGCATGCTGGCAACGATGGGG
ACGTTGAATCTCGTCCCGATCCCCCTAAAAACTCCCAAGTTCCTCCTTAAGTTCATGTTG
TGACAAGAACGGACGGAGGAATGGCCCGTTCCGCTGAAAGAGGTCCCAAAGACACAGGGA
ACATTGAGCCCCTGGGCAATCCTGATGCAACGTGTGTAGGCCCGGAGGGCGGAACTTAAG
TCCCTTAAAATGCCGACGTTGTTGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 855>:

GNMPI37TR gnm_855

TATTTAGATACAATGGCTGTGCCCTACTCCAACTAGTATTATGGTGTATACAACTAAGGT
CATGTTCGTTAGTACCCGGCCGGCTGACGTCTGAATAAAGGTTAGAGTGAGCCGACGTTG
TTTAATGGGCTGGCTATGTTTGCGCAGAGGAAGCAGTTTTATAACGTTATGGTGAAGAAG
GCTGTAACTAGGCCGGTGGGGACGGAGCTGGCGCCGTTGAAAGGCCCGCAGAAGACGTCG
TTTAAGCTCCGAACTACAAAATGCGTGATGTGTGCATTGGTACTGATGGTGGCTAGGACG
AATAAGGTCCTAAATAATAGGGTGAAGCGACATTAGAATGTTACTACTGTTCTGTTTGGA

ACTAGGTGGTCTACAACGCGTGTTACATTGATCGTGAGGGCGGGTGTATTGCTGGTATGG
GAAAGGACGGCGCCCCTGTTGATCCTCCCAGTAGCGCGTAATAGGGCCGTGGTACTGATA
GGGAACCGTAGTCCGGCGGCAACTATCCTGGTGGTGGCACCGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 856>:

GNMPI38TR gnm_856

ACTGAACTTAGTTTGTAGGTGATGTGGCAAGTACGGTGTATAGCTCTTCGTACACTTAGT
GTGCATAGACATGGATGGACCCTCCTAACTGGTAAATCGCGGCAACTGGTAAGTTACTGG
ACGACCCTCCTTGAACTATTGATGTAGCAAAGTCTGGCGTGGCCGTAGGCAGAAAGGACC
ATTGTTCTTGCCGTTGTACCGTCCTGGGTAAGACCGTGGATGGTCCCAGGTAGGGTGGTG
GTGGTAAATGTTAGTCCCCTTTGCACGTCCAAAGGCGTGGCCCGACGACCGAGCTTGATA
GTGGCAAGCCGTACGAAAAAACTGGCAAAGACGAACACAGATTGCCACCACAGTTCAATC
GTCCTTCCAAAATATGGATAAAAAATCGTATTCTTGATTGTAAAAACGTTGCTCGAAGGC
GTAGCCCTTGCCCGCTTGGTGGCCGTTGCTGGGTAGTTGGGTGGCCCAACTTATCCTGTT
TGTGCACCGCCTGGTAGCTAGTAGATCGCTGCAACTGGTAATGCCCGTTGGCCCGAGCCC
GAAGAATTAGTTCGTATTGCAAGGACTGTCGCCGGTAGCCCTTGGAGTGTCCGGTAAACT
CCTGCCGATGGTAATGATCCTGTTCGTAACTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 857>:

GNMPI39TR gnm_857

TCTGGCCTTTGGTGCCGGGTACTACTAACCTGCTGAAACTGCGTAACCTGCGGGTGGTGG
CTGTTACCCGGATGCCGCCCCTGATGAGCATCCTGGTGGCGTGGCTGACGAGCCTGGGGG
TAACTAGTGGTCTGCTATTTCGCATGCCTATAATAACTAAACGTGGTGGTAGTCCTAGTG
TGATAGAGGTCCTGGTAAGGTGTGCTGCGTTGTCCCTGCGTTGGCCCGAAGCTACGATGA
TCCTGACATTGCGTGTTCGATAGGTTGCTCGAACACTGGGACGGCTGGCGGTAATGATGA
TGTGTGTGGTCCCATCCCCCGTTGTTCGCCTGGTAATGTGTATGATTACTGGCCCGTTGC
GGACGCTTGTTAAGGTCCCCTTGGGTAGGTGTGATGAACTTAGTTGTGTTGGAACTAACA
TGATGAACCTGGCTACGTCCCGAGCCTTCTCCTGTCTAATGTCTGTGTCCTGCCCCTTAG
TACACAGGGAACGTTGCTCCCAACTGGACAGGTAAGTCCTGTTCGATGGTCTTATAACCT
TCGCCCGCTTCGACGACACCTTAGTTCGTTCCCGGCAATGGGGTAGATGAGGACGCTCAA
GAACCCCCCCCTTACAGGGCCGTCCCTGGGCCCGACGGCCTAACTAACTGGACGTTTCTC
CTAACACCCTAGATGGTCACTACCCACCCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 858>:

GNMPI40TR gnm_858

CTAGTCTGCTTCCGCCTACACATCGTATACTGCATTTGATGTGTTTCGCTGAAAAAACAA
GTGCAGGGCCCGCAAGCCGCTCGACGTTGGACACGTGGTAGTCCGTTGCTGCCAACTAAT
CGGCTGGACATACTTCGTTTGATAGATCCAACTTTGCATACAAAACTGTGTACTGCTCTC
CCTTGAACGATGAATCTGACCGTGGGTCTGCTTTGACGAAATACCCCACTGATTTGGATG
TCTAAGTTGCACCTCCTTGAAAGTCTTTGCCGTAATCTGCGTACAGTGGGTGACGTAGCT
CGCCCGAGGAACCCCAAAACACTTCGTCTTCGTGCTCGGTCTACCACTCGTATTAGTTGC
CTCCCTTATCCGTTGTTTGCTTAAAACATATCGGCAGGGCCAATTTGGGCTCTAAAACAC
CCTCCACTTGTATCTAAGTTCCCTTATAGGTCGAAATATACCACTAGTACTAGTAGGGTA
AATGGTAGGGAAATAACTAGGGCTACAGATCGTAGGCCGTTGAGCTTGCTTGAGTGTACT
AGTAAAATGGTAATGGTAGATACTAGTATGTTTTATACAATTGnTCGTTATTGCGGTGTG
TCTAAGTTCCCGCTTTGAGAGGCAACACCGCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 859>:

GNMPI41TR gnm_859

GCTAACGTCCGACCCCTGGCCCTATCTACACCCCCCTTCCCGCTGGCAAGGGACAAGGAC
GTGGCGTGGGTCAAAACTTGTATCCGTTTGTACACACAGCGGACCAATAAAAATTAGCAT
GGTGCCGTTCTGTTCCAGTCTAAAGAGAATGACCTCTCAAGGCGTCGAAGTATTAAGCGA
GCTGGCCTTGCATCACCCGCATCGCTCGTGGTCCTGTTGCTCCGCTTCGACCCCCGCCAA
CTTATCACAAAAACAACAAAGAACTACAAATGAAACCCACCACTATACACCCCCGGAAAA
AACACTACCCGTGCGACGCCCCCAAGTAGGCACCCCATCACCTCCCATAGAACTGGGACC
CCACTAAACGGGCCTGGTAGCTGGTGGATAATTGTCTAAAAAACACCCCCGTTGGATATT
AAGGGCCCGCCTACATCGTTGAATTCGTTGGCCCCGTACTTCGACCGGGCGCACTGTTCC
CCGCTTCCCACAACGTTGTTATCCACACCCGTTATCCCTTTGACGAAGTTGCCCGTTGAA
AACACTTTTTATAGTTCCTGTGGTAATCGTCGTGATGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 860>:

GNMPI42TR gnm_860

CCCATTCGAACGAACTGCATTAAAACCGGCATCCAACTTCGACCCTTTACTGTCGTTCAC
AGGACATCTTAAAACTAATAATAGGACCCTTCTCCGTCTTCCCAGAAACAATCGGACAAG
TATTCGAACGCACCTTGCCTAATAAC[illegible]CCGAGGACCAACGCCCCGACCCAAAGCATCTC
CATTCCTAACGCAGCCCTCACGCTTCGAAACACGCCCTTTCCGAGTCTTACTACGAACCC
CAGCTTTAACAGACCCCGTCCCAAAACTAATACCGTGGGCCCGAAATACCCTCTTACTCA
TAGATCGAGACAACTCCGAAGTAGCGCCACGTCCGCAGGAGCTCGAGAAACTTTTATCAA
TTGTAGTTCCTTTTGGCCCCGTTGTTCCCGCTAGGCCCCCGATCCCGGTAAATGGTAGGA
TGCCGATTAGGGTCCTGATGGCCCTGGTGGTACCGGGGCCCCTTCGTACTTATCGGCTAA
TGGTCCTGTTTGTGTCGACAAAGGGGCCGAGTGTGTTGGTGGTGATGTTGCCGACAAATC
TTACGTCGCCGTTTTAATGGCTGAGTCCGGTACCGCGTCTGAATACCCCCTCGCCGGTCC
TACTGGTGTGGCTGGAGAAACCGTCGTTGAGGCCGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 861>:

GNMPI43TR gnm_861

AACTAGGATGGACGGCCTACATGGTACGGTCCACCTTGCCCTTTAAACCCTGCGTGGAAC
GAAATCTCTGGTTCTGCACCGTTAAAGTACCGCGCTTAACCTTCGAAGTCGTTTGAATGA
AC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 862>:

GNMPI44TR gnm_862

CCGTGTTTAGCAGCGGGCGAGGCAGAAAGGTCGTTGTGGCCGCTGAGCCTGTTGGTCCCA
TGCCCAGGTGACCCGCTGCCTAATAGTAGCCCCCTGGCGGTCGTACTTAAAGCGCTGGTG
AGGATCCGGGTCCCGGTACCGTTGGCCCCCCGTGTTAAACGCCTAAATGACCTGGTGAGC
GTGAGGAACCTGTTTAGTGAGCTTTAGTGTAAACGGCCCCTCCTGAGGAACCGCCGAATA
CGCCCTGGCGTAGAATTGCTTGTGTTGGCCCTAAATACATTGTTGTTGCCTACTAACGGA
ATGACAGATAGTACCCCTGTGTCCGCGTTGAGCCTTAAAACCGGGAATAAGCTGGCTAGG
CAGCTGTGTAAGATACCATTGGCCATGGAGACGGCGCTCCTGTTGCCCCCTAGATGATTT

AAGTCGAATCCGGTGGTCCTCCTAGGAGTGAGGATGTGGACGCTGAGGTTACCGGCACTT
AGCCTGGTAAGGCAGGTCCCAATTCCGGTGAGTAGGTCTCCGCTGCGTGGATGGCCCCTG
CTGAGTTAGAATATGGTAGGTGCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 863>:

GNMPI45TR gnm_863

TACCCCGCCAACTTATCACACCCTAAACCTTTCTCTCCCTACTACCACCCAAACGTCACT
ACCAACACAACCAATAAAACCCTACCCTTACATATTGACGCAGAAGAACAATAAACCAAC
TCACCCACAAATCTTGACCTCCTTCTACTGGGCCACATCTACTAGAAACATCTATCGAAA
CACACGTTCCCCATACGGAAAACTATCAGATAGCCGAAAAGTAACTAGCTAGCCTTCGCC
AAAAATGTGCGCAGAACCCTTGTCCCACTCTAACTGGATATGGCCCTAACACGCTCCTTT
TCCTAAACATTAACTGCTAAATTCGGCTTAGTTGACCAATTCACACTTCGATTGCCGTTG
GTGTGATCGCTGGCCCTGGTGTGATGCGGTGCCCTTTGCACCCGGCTGGCGAAAATGGCG
GCGTGTGCACGCGCCCCCACCTCGCACTGTGACGTCGGCCACTGGTACTTTGACGACCCC
GGCGGAAAACGCTACTGGATGGTGTAAAGGTGCGAATGTGTCGGACGTGCCTGGTGGTTT
GACGAATGGTAAATTTACCGTTAAAACCCGGAAATCGGCTGGTCGGACGGGTCGTCTGGT
GTGCCTGGTACTACGGTCCACCATACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 864>:

GNMPI46TR gnm_864

CCCCGGAAAATTGACCCTTTCGTAAAGTCGTCGCTCGTTGCTGAAATGTGCCGAAGCATG
GCGTGGTGTAATTGAATGGGGTTCGCACCTGATAAGTCGGGTAATAGCGTGGTGACCTAG
GAAACGAATTGCGAGGCAGGGGTCGTGGCGAAACGCGTTCTCTTTGCATCCCCGATGGGT
GAGGTGGGCCTGTTGCCCGAAATGGCGGTATGTCACCCTTACAAAAATGGCATGTTGCGG
GCTAGTTTGGTAAGGGCTGAACACTCGACTGACACGTTGACGGAATCGCCGTAGAAGGTG
GAGGGTGGTGCCCCGCACGCTGGTGATACTGTTTAGCATAGTTGTAATACTTAAGTTGGC
ACCGTTCCCACCGCTGGAAAGGTGGAATATTGTTGTGCTAGGGCGGCTGTACTGGGTAGT
AGGGTGGTAGGCCTAGATGGTACCGTTCGTGAGGAAAAGTCGGTGGAATCGTCGCTGGAA
CTGGCTGCTTGCACCTTGTTGTCGTGCACGTAGTACGAAGATACCTTTCCTTCGACATAG
GGGACCGTTCGTAACGCGGTGGAAAGTTAAAAGACCGTGTTCGTTCTACCTAGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 865>:

GNMPI48TR gnm_865

CTGGCATTTTGCTGCGGTCCCCGTGGGCCCCACTGGCAACGCCCCTAGATGGTTCGCTTA
GACACCTTGCTAAAAATTGTGTTTACCTGTTGCTCGAAAATGTTATACTGCCTAGTTGTC
GTAATCGTGTGTGTAGGCCCCTTAGTAGTTCGTCCCGGTCGCCTAAACTTCCGTGGCACC
TGCAATTTCGACCTCGTAAACTGGTGACCAATCTTGTCCTTAATTGGCCCCTTGACCGGC
AGTCGTTTGATCGCCTGACCCCCCTACACCGGCTGAGTATGACGAAACCTGGTGCCCTAG
TGACGGGCCCGGCCCTGAGGCCTACGGTCCACTCTCCCGCCTACTACTCCGAAAAAAACC
ACAGCCACTTAGTAAGCGCCGTAAAAGTAACCCGATAGCCCTCCGCCTCCGCGGCGCCGG
TCTGGTAAACGTTCTACCAGACAACGCAGAACGATCCGCAAAGCCAACAACATGCCGAAA
ACAGCCCTGCTCGTCGCTCCTGGGTAAAACACTAGATTCCCGTCCACAGTTCAAAAAACC
AGTCGCCCCCCTACATAGGCCCTCTAGTAATACAAAACGAAATTGCCTCATTCGTCGACC
TCTGACAGTCCCCCTAACAATCTTCCCCAAGCGAAGGCGACACGAAAAATCCCCACCGGA
ACTATTCCGCCCCCTAAGAACACTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 866>:

GNMPI49TR gnm_866

GGGTCCCCGCCTCCCACGATAATCGTTACTCGCTGGGTCTTGAGCTGCTTCCGATGCTTG
AAGAGCCGTACCATGGCGCCGCGTAGAAGCCCCAGAATGGGAGATTCCAGCTTCGTGCAA
CTCGGGGTACATCCTAGACAAGTAAGGGAAAATTCATAGTAGTCTGCTAGACATCTGCAG
AATCCTAAGTACCTGCGTCCGATCCGTCAATATCTTCTTCGCGTTCCCTACTACTGGCTG
CTGCGTGGGCAGCTTGCTTCTCTCTGGCACTTACTGGGTTAAAACCGTCTTCTAGATCTG
CATAATCCGTACTATTAAATTCAGGAATATCCGAGTCAATTACTTGCGAGTCAAGCTTAC
TTACTTCCTATGGTCGATCCTCCGTAGCGATATGCTTATCTAAATTCTCTTCGTCAGGCT
ATTGGTTTACTGGGGCTTCCCCTGCAGGCTTCCTCTCAGGGGCGCGGGCTTCAATCTTGG
CTTCTGCAAAGATCTCTAAAGAGTCCTAATTTATATTAAATTTAGTATCCTCACTACTCC
TACCCTAGTAGTCCCAGCTCCCTCTAACCAGATCACTCTCAATTAAAATCTAGCATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 867>:

GNMPI50TR gnm_867

TCCTTAATGCGTTCTTCGAGTTACTAGAAGTGTCCCAAATTCCTAAGAATCCTAAACCGA
CTCGAGTTGCAGGCAAATTTCTTTATATGGGCTTCTACTTCACAGATAGGCTTCTTCAGC
TTCTTAAGATCCCTCTCTTCTGTAGTTTGCTTCAGTTCTTCATGATCCTCACTCGCTTCA
AACGTTTGGGCGCTCAAGTGGTTCTATCCCTGGGCAAAATAGCCCCAAAATCTAAGCTTC
GTGCAACTAGTGCCTCCTCCTGTGTCTTGCAAACAGCAAAAATCCCAAATAGGCTTTTGT
TAAGTCCGGAAAAGAACCTGTCAAAATAAATTCAGGTGATTCTTCCAAATTCAGGAGCAA
AAATAAAATTAAACGTGCCCATTGTTTTATTTCTTGGGGTTATGCCTGCTGGCTTCTCGA
TTGCTTTGGGAGCGCCGAGACTCTCAAACTTCCTCCTCAGAGCTGCTAAGCCTATATCTC
TCGTCCCTGCGGTCGTTGGGGTTGCTGTCGAGGGTCTTGTGCTGCCCCTAGGGCCCCTAC
TCAGATTCnTTCGGGGGCTTCGGGTCGTTAACCTGCCCTACCTAGATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 868>:

GNMPI51TR gnm_868

TCGGCTTAAATATCTTCTTGGTCGCGGTCCTCCTCGGTTTAGGGGTGATATTTTGGCCCT
CCATGGTTTCTGGCATCCTAATTCTAAAACTCCTTGCTGGCGGTTTGTATGCGTTCTTCC
GGTCCATCCTCGGGTTTGGGTTCGGTTTGAGGAGGGTAATTGGCTTTTTAAGTGTCAGCT
TATCGGTCTCTTTACTCGCAGTCCTCAATCTCCTCTCCGTGGGCATCCCTACCGATCTGA
TTGCTCCTTCCAGGAGCTTCCTTACGTTCATTGCATTGCCTGCTTCTATCATAACAAAAC
TCCTACCAAGAATTCTGAGTACCTCAAAGCCTACTAGTCCTATCATAGGGTTCATATCTG
GTACCTCCCGCGTCAGGGTAATTAACGTGTTCATACTCCTGATGATTCTCATGGGGATCC
TAATAAACAAAGTCTTCCTAATCGTAATTGTAATTCTTCGCGAGCCTGCCAGGAGCCTCC
TACCCTCCTCCCTCCTACTTGCAAGCTTCCTTGGGTCCGGTGCAAAGATTACATCTGCCT
AAATTAAACTCCTGATAAACATAAATTCGAGCTTTGTAGCTTCnCTTGGGTCCGTCACGC
CTCGAAAAATATTCCTACCCTCTAAAGTCCTCGCGTTCTATAAGGGATTTCAGGTACTTA
TCATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 869>:

GNMPI52TR gnm_869

TGGAACTCGTCCATAGGGTTCCTCCTCCTGCGCTTCGTGCAAATCTTTCCTCCCCCAGCT
CCTGCTCGGGGTTAGTCAGAACTAGAGGGGTTCCATCTCGGTCCCCTCCCGGGGTTTCCC
TCCTTCTTCAGGGCGGGCTCTGGAGAGACGCCAGGAATAAAAAGTACCATAACCTCATCA
ACTTCTACATACGATAAAGACGATCCAATTCAGGTATGGCCGCTGGTACTATTGGACACA
AGTCGGTGTGGGCACTGAACCTCACCTAATCTTCGATGCCGGGGGCGGAAGTTATGAGAA
AAAATATGCTACTAAAGTCGGGAAAAATAACTCGTTGGGGGTCCGTCCCTCCAAGATCCT
ACCCGTCCGGGTTACTACCTTGGGGGCTTGGCTTCGGGTCAGGGCTCTTAGCAGGGGCCT
ATGTCCGATCTTTCGCTCTGTTGCTAATAGTCTCCTCCCGATCTTCGTCCGTACCTCTAC
CCTCGGTAGTAGCAAGGTCAATCCTAAAGTGGTCCTACTCATCCGGGGCTCGGTCATCCT
GGTATGTCCGGCCTGGGCTAGGAACCTCACCGACGTCGGCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 870>:

GNMPI53TR gnm_870

GCCCTCAAACCTATCCGAAAACAAGTCTTGAGGGCCCTACTGGTCTTAGGGATTAGAGTA
ACTGTCCTAATCCCTCTCGTCGTAAAACTTAACGTTTTCTTTTGGATGCCGAGCGCTCTA
ATAGGATATTCTTCATGGCCCATCAAATTCGTGAGAGTACTGCCTTCCAAAATTAATTCA
TGTTCGGCGGTTCGGCAGGGAACCCCAAGCTAAGCAATTGGAAGAAATGCAAAAATAAAT
GCGGTTCTTCGATCCCCTACTCGCTCCGCAGGCTTCGATTCGAGAGGGCCTGGGGCCGCT
GCTGGTGCAGGTTCGGTCTTAGTCGCTGCAAAAGTACTGGGCTTCAATAACAAAGTCTTA
GTTTCTTCGGGATGTTGGGAATCATCAGTCAGCACCAGGGCCCGTCGTGCAAGAGGCTGC
GTACTGATTAAAAGGAGCTACATAGTGGTTAAAAGGGGGCCACGATCTGTAAGCTCGGTC
CTCATCCGCAAAATACTAAGAGTGAGTGCAGCATGGAGGCCGTGGTAAGGAACATGCTCT
GCATGATCATCCGAAGGGCGTGCTGCCGTCCGGAGTTCATTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 871>:

GNMPI54TR gnm_871

TAAACTTGGCAAATACTTTCTCTCTTTCAGCCGGCTTAGTCGGCTTCCTACTAAACGCGT
TATTAACTGCATTAGTTGTCAAGTCTGCCTCCATAAACGTCATTAATGTAGTCGTCCTCC
TCCGAGTCTAAATATTGGTTGCGGCCTCCAACCTAAACTTAGTCCTAAAGTGGGCCTCCA
ATATCAGGGCCGCCAACAAGTTAAAAAAGGAGCCTCAAAAGCCTCCTAAAACCGTGCGCT
TCTGCTTCATTCAGCGTCGTCGGCTTAAACTTGGGCTTCTTCAGCTCCAACTGCGCCGCA
AACATAGGCTTCTTCAGCTCCAACTGCGCCGCAAACATAGGCTTCATCGGCTTCAACATC
ACAGCAGGGGCCATAGTCCGTTCAAAGTTCTGCTTCTCTGGCTTCAGGGCTGGAAACTTC
TTCCGATCCGTCGGGCCAATCCCTTCCGTCCTCGCGGTCACGGGCATTAAGGTCTACCTC
CGATCAAACTTTGGCTTCAACTTAGGCTTTAAACTAAACTCGGTGTCAGGCTCCCTCCTC
CTCATATCTGCCTCCTCAGGCTTAAAGGTCCTCGGATTCAATAAAGTCCTGATAGTGGTA
TTCCTCCTCCTCTCGGTTGGCACGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 872>:

GNMPI56TR gnm_872

TCCGGTCGTTATAAAGAAAACTCCGGGTAGCCTCACGATCTCCCTCAGGGTCATCTCTTC
TTCGGTCTTCTTCCATACTCATCCTCTCCCCTGCTCCTCGAACGCGTTCAGAGGCACCGT
CCTCACTACGGGGGTCAGGGTTTGCGTCAGGGCAGGGGGAGTGGGCCGGTGCAGGGTTAA
CAGCCTCTCCAGCGGGGCGGTCATCCGTAGGGGCTCCAAGAGTCACCTGGTTGCTCCTAC

CGACTTCATATTCACCTCCCTCTCGGTCGCGAGCCCTACCGCCTCTAAGGTGGCGTTCGT
GACCCGGATCTGCTTGCTCGTCCTCCTCAGCACGTTCATAAGTAGCGACAACTGCCGCCG
GGGATTTCTATTCGGCCCTTTCACTACGTTCAGCATGGTCTTCTGGGTCAGGGTCACCCA
CAACTGGGGAATCATGGCCTCGGGGGGCAAATGGGGGGCTACCGGGGCAATAATAACCTC
CTGCATCGGGCTATGTAGAAAGAGTGTGGTAAGAGTGGTCCGTCCTAGAGCTTCGTTCAA
TTCCCGGGAGAGGGTACATCCTAGGGGCCCAGGAGGTCCAGGGGGCTCGATGTCAACCTG
CCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 873>:

GNMPI58TR gnm_873

AGGCCTCTCnAAnAAnAAAGTTGTCTGGGTCCTTCTACTAGTAATTACTTGCTTTTCTGT
CATAGTTCTCGTAATATGGGCAAACCTAAATCTCAGAAACGCTGCTTCTGCGGCTAACTT
CAAACGCTTCAGCTACACCTAATCTTGGAGGTCTTGGCCCCTAGTTCTTGCAAAAAATAAA
AGTCTCTGGAATAAATATCAATGCGGGGGACATCCTATATGCCAACGTTAACATCAACCT
ACTTACTGCTGGCTTGGAGGCCGCCCTCTAAAATCACCTCAAAGTAGGCGTCAGGGTGCG
CTTCCGCTTCCTCCGAAAATTGGCCTGCGTCCGCTCTAAAGCCTCAATAAACCTACAAGT
GATCTTGGTCAGAGTCTTCAAAAATCTTGGCTTAATTGTAAATTCTCGAGCATTTCTCTT
CCATGCATTAAGAGTTATTTTCAATCTAGTCCTACTCAATATCAGCTTTCGAGTCTTTCA
TGCCTACCTAAACTTCATTCGCGCGGCCGCCATCTCTTTGCTGTTCCGGGCCCTATGGGA
TCTTCTAAGTTTCATTGTAAAGATTCTTAAGTTCnTCAAATTCGTCTTAATTGGGGCCAA
TACTAATATACTAGTTGTCAGCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 874>:

GNMPI59TR gnm_874

ATTATTCTCCTTCGATGCTTGAGTTTTGCTGCGTTAGCGGTAAACTTCGTTGCTGTCCAT
AAGCCTATACTTGTGTTCAGTTTCAATGTCAATATACTTGTAGGATTTCTAGTCAGGGTA
ATTGCGGGGCTTCGGGGCATCAATGCACTAGTTTTCAGGATACTATTGGAGCTTCTGATT
CTAATTCCTGCCTCTAACATAAGATTTGCGTGCAATGCGGCCAATGCAGGAATTCTTAAT
GCATTCAAAAACCGGGAAAAAGACACAAACTAGGTCTGCTTCGTCGGCATCTTATTAGGA
GGTACATTCGTCCTACTAAATACTCGTACCTTAGACAACGGCATCAACAACCATAAAGTA
CTCCGTAAATTATATTCACGAACCATACTCAGCTTTCGGCCAGAAACAAAAAATCCnTGTG
ATAAATGTCCGGATAAATAATAGATTTCGATTCAGCTACAAACTGAGAGTCACAAATGCT
ATAGGATTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 875>:

GNMPI60TR gnm_875

CTCCTCCTAACTTCTAAAAGTTTTCATACTTCTTGTAACCTTCCTCATTGTCGAGGTGGT
AATATTCCTCCTCTATATTCTGATGTATATCGTCCATGTGATAGTCCTAATCCTCAAGGT
AGTTAGCTTTTTACTACTCCTAAAATTAGTAAAATTCAAAAAATGTGTTATATTCGGGGAT
CTTAAAAATGATTGTCCTCTATAGATGGGGGGGATACAAGCACTTCTTTCTTCTCTTCTC
TTCCAAGTCTCCTAAAAGCTTCTTGGAGGTTCTGCGGGTCCGTACTCAGCACAATATCGT
CAAAGAACGTCCCAACCGGGGCGCCCGCTAGGGTCCAGTCGGCAGCATCATCCCGATCTT
TAATACTCAAATTACTCACAAATATAGTCTTAGCTCCGCCGTCGTCGATCGCGTCAGCAT
CCTCGTCCCGCGTACTCGGGTCCCTCCCCGCAGCGCAAGGCTGGTCCTGGTGGTCATCAT
GGGGCTTTTCACGGGCTCTAATGTCGGGCTTAGGCTCCTCAGCTCCGTCCGGGTGGGCAT
CTCTTATCAATTCAGCGGCTCTACTCGCTTACGGGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 876>:

GNMPI61TR gnm_876

AAATTCTGTTCTTCGTAGGTTTCTCTACCTCCCAAGTGACATAGGTAAGCTGAACCTAAG
GGAGTCCCAAGCATGCAAATGTAAAAAATGACAGGTTTATGGGTCGCCCAAGCATCCAAG
CGACCGGTCGCCCAAGCATCCCAGCTACCGGGTTCGAGCCAGCCAGGTCGTAGGTTTCAC
TACATCCCAGTGACATAGGTAAGCTGAACCTAAGGGAGTCCCAAGCATGCAAATGTAAAA
AATGACAGGTTTATGGGTCGCCCAAGCATCCCAGAGACCGGGTTAGCTCCATCTCGGTCC
AGGTATCATGCTCTCCAAAGCATCCCAGGGGCCGCGAGGTTTGAAAAAAAGAAAAAAATA
GGGCTAATGGGCGGAAAAAGAAACCTGCGCGGGGAATCAGCGCGGCAGAGGGAAGGTGAC
AAACCGACTGAGGGAAGACGGATTGGGGTGGAGGGAAAAAGACTGGGTGTAAAGGTTAGC
AATCTTGTAAGATCAGAGCTACAGCTGTGAGTCAAAGGAACGGGTAATAGGGGCGGGAGG
AAATAGGGGAGGGGACTTAGGGGGTAAGAGATTTTTAAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 877>:

GNMPI63TR gnm_877

GCCTAAAAACCAGCTCGGGCTACAGTTGGGCGTCCCGTCCCAACCCGCGGGGCTACTCCA
GGGGCTTGAGAAGCACACCCAATCTAAATTTCGAGTCCTCCAGCTTCTTCAGATCCCGGG
GATAGGAGTCAGCTTCGTGCAAACCCCGGGGAGTTCGGTACCTAGATCCCTCTCAACTCC
ACCAGCCGCGTCTCTACCATCAGCACGGGCTTCGCAAACAAAGCTCGCCAATTCCTCAGC
CGAAGCATCCCTAAAGTGGCTCCGGTTCTTTAGGGTACGCTGGGTTTCAGGGTCATCATG
GTCGTGGTTCTCTTCGCGAGTAGTACTCGGGGCCTAATCGGCCCAATCCTCCATCCGGTT
CCATCCGTCCGAGACGCCTACATGCTTCTCTTCAGCACTACTAAGAAAGTCCCGCGCTCT
CTGGCGCTCCTAAAGCGCCTCATAGAATTCTTCAACCACAACTTCCAGAACCTAAAGGTC
CCCCTGGTCCCCGCGGCCCTCTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 878>:

GNMPI65TR gnm_878

CTTGGGGTTCATAGCTTGGTTCTTATAACTCTCGGCGACTTCTTGGTCATACAACTTCGT
TAATTGGGCCGGGGCGACTCGGTTCTATCCGGGGTAGTAGGCAGCTCCGCGGGCAAATCG
GCCGAGGCTAATTACTTCGTGTAAAGATCTATTTCGGGCGGGAGTCTCTAATGCAGCTTA
TCTACTAGAAATATTTTTCTTAGAATTAGATAAAGTATGCTTGCTTCTATTCTTGGGCTT
CGGCATGCAGCTCGCTGCCTTCCTTTGCTTCTTTAGTATCTTCAGGCTTACGTCCTGCTT
GGTAGGGGCTTCGATAAATATTGTCTTCTTCAGGGCTATCTTGGGCTCTTATTTCGATCT
ACTTCTCTTCTTTTCGAGAGGGGCAGCTCATTCCTTCTTCAGCAACTCTACTTATAAGGG
GGCATCCCATCCAGTCCTCCTAGATATCGTCGTCTTTTGCGTCCTCCTATCTACTTTAAA
TAAACGAGGGCTTCTAGAACTTGCGGCCCTAGAGAAAATTCTGGTTCTTGTCCCCAGACT
TAAATCTGCTATCTTTAACTAAAAGTTCTTGGTCTAGGCTGGCACTAAGAAGGTCGATAC
GTTTGCTTCCGAAGGGGCGGGAAATCTAAATCAATTCCAAGTTCnTCGGGGGCTTCTAAG
TACGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 879>:

GNMPI66TR gnm_879

ATATACGAGCATATAGAAACTCGTAAGTCGCGCGGCTTTGCGGGGCCAACCCAGGCAATT
GGTTAAAAGAACGGGGCAGGTGATTCTTTTCACCCATACAGCGTTAACGCCTCCCCGGTA
ATTCAGAACCAAAGGGGAAGTAAAGACAAGTAACTTGCGGGAAAGGGGCGAAAGCTCCTA
GGGTACATCCTAGGGGAGCTTGGCTTTGTTAGCTTCGCAGCGGTCAGCCTAAAATTCTGG
TCCTCCGACCTCCGAAACTCGGTCTCTCTCGTCCTCACTGTGGTTAACTGCGGCTTCATC
AGGGTTAAAATCTCTCTCCCTAACATTCCACTCCGCGGTTAAAAATTCGTCCATACCGGT
AAAATCCGTAGCTTGGTCCCAAGGTCCCCTACAGGCTTCTTCTACCTAACTACCATCCAG
CCGGTACATCCTAGCCTGGTGGTTCGGGTTTAAAGGGTCGCTCCAAGCAAATGTGTCCTT
GTCGAGGCTTAAACTAGGGGCGTTAAGGTTGCAACTGCTTTCAATCAAGTCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 880>:

GNMPI67TR gnm_880

GGGGCTGCTTTnTCGGGGTAGGGCCGGAACTCAATTAGTTAGAGGGACAATAAATGGAAA
CGGTTTAGGGGGAGTAAAAATTGTGAAAGCAGGGGGAGCGGCCTTAGTGAAAGAAAATTG
AGTATTCCGGGGGAAGAATTTGGCCGGGTGGGGGATTAACAACATACATGCTTTGGCTGC
TCGTCCAACTCGGCGTGGGGTGCAAAGGGCACTTACTGCGGGGTTAAAACCAGGAGGGGG
TAGCGAGCGATGTAGAGGTCCGATACTATTGGGAGGACCCAGAGAACCATCAGGGGGGGT
GAAAATGGTTGGCATTGGGGCGCTTCTGGTTTTGGGAGGACTCTCAGGTACTGTGCGGTT
CATCATAAGAGTAAGAATCCTGGGCCTAGTCGGTTAAGTTAAGCGGGTCGTCAAGAACCG
CCGTACCGGCGTCCTGAAAGGAGAATTGGTCGTGGGTAATCGTGCGGGGAAAGTGTGAAT
CGGCAGGGGTTTCGGGGGGAAGTTGGGGTGCCTGATTGGAGAAATTATGGGGCTACTACG
GATAATACTGGGAATTCTAGGAGGGGTGATTCTCGGGGCGCTCCGGGCGCTACTACGAGG
CATAGTGTTGTTTCGGATCTTGCTAATGCGATTGCTTCTAACGGGCCTAGACCTCCGAAG
G

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 881>:

GNMPI68TR gnm_881

CGATCTATCCTCCGAATCAAGTTCCTCACCTCTATCTGCGTGGCTCCTGGTACATCCGTG
AAGGGCCGTCCGCTCAGGGCCTCCATGGTGGCCCTAGATCCCTTCAATCCCGCCTTCCAT
ACCGAAAACTTCAGCATCCGGGGGGTGGTCCTCACGGGGGTTCAGGTCTGTTATAGTCCT
CTCGTCAGCACTTCTATTCCGGTCAGCCTCGTGGTTAGTAGCGTCAAAACTTTCTTTGCA
GGCCTCGGCCTCCTGGGGGCCGTCCTCGGCGTTAGACTCACCGTCAGCGGTCTTAACACT
AGCCTCTCCGGCCCGGTCAGCTGCGTCAATCTCTTCTTCTCGAGTACCCTTGTCACCCGC
TCCTCCGGTAGCGCGGTGGGCTTCATCTCTGTCTACAACGTTAATACATTCCGAAATGGC
TTCTTCTGGGCTTCTCTCCTCCGCAGCCAGGTCATCCTCCTGGTCTTTCGCTTGGGAAGT
CTCTTCACTCTCGACTCCAGGGGTAGCGTTCCAGATCCTCGCAACTCCGACGTCCAGGTC
GGCAGCGTCCCTCCTACCAATGTAAGCTTCGGCCTCTCCTACGTCGGCGACAAAGCTGGC
ACTGCCGTCCGCGGCGTTAAGGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 882>:

GNMPI69TR gnm_882

AATACTCTCCTCTGGCTAAAAGAGCCCCAACACTGGCAGCTTCGGCCGCAATAGAGTAGG
AAACTTCTGTACCTACATCTGGGCGTCTCTAAGATCTTACTCCGGCTCCAGAAGCCTGGG
AAAATCCGTACAAACTGCCGTCGCGGTCGCGGGGGTCTTCTGCGAAAATCTTATCTGGGT

CCTCGCCGTCTCTATCTCCAGCACCCAAGAATCCGACGTCTTCGGCACGGGGGTCGGGGT
AGAAGGCGAATCAAGTAAACCCGGCTTGAGTTATAGCCTCAGAAACCGTCTTAAAAGTAT
AAAGAGAGACATAAATTAAATCAGCTTCGCTCCAAGCGTCAACTTCAATATCCGTACCAG
CTTACTTAACTTTTCTAAAATAATCCTAAAGGTTACACAACGAATCATTCAAGGCATTAG
CTTCTCTATAAAGGTCAGCCGTCAACTCAGAAAGGTTGCTCTCGTTGCGGCCAGATCTGC
CGTCAGCGGCGTTCCTCTCGCCTCCTCTAGGGCTACCTCCGACGACGGGGGCGTCCTAAC
TTACTCGCTGCGTACTATGGTCGGCACTTCTGTTCATTAGGGAAGTCTTAACTTGGCAGT
CAACAACGTCGGCATCATCGGCGGAAATCTTTCGAGTACTATTATCTTTCTCGGTAGGCT
ACTAAATAGGTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 883>:

GNMPI70TR gnm_883

CGCCTGGGATGGATTGGGTGACGTAGCAGGGAGTGTGGCCGGGGGGTGCTTTAAAAAGGA
CTATAACGTTTGGTGCGGCGCACAAATGGGCCTAAAAAGAGACTACAGCCGGGCGGCTGC
GGCGGGAGGGACCAGGCCCCAGAGAGAGTTGCCGGCAAAATAATACGGGGCAGAGCTGAG
CCATGCGCGGCCCTGACCAAAAAAGGGAGCAAAAACAACGAGTGCTAAACATGCTTAGCG
CTACGTGGGGGGCGGCTTCCGTGGGGGCGCGTGCAGCTTCGTGCAACTACGTGTGCTATC
ATTGGGCGCTCAAGAGGGCTGATATGGCCTAAGTTCGTTAGGGGGGTGTATCTGGAGCTG
CATTGAGATTTTCTTTCAGCTTTCATTGTTTCTTAAAATTTATCAAAACTTCGCCTGCTG
CTGCGGCAGCCTCGGGCTTGCCGGCGCCTTTCCTCGCGGGGTTTATCAGGGCGCCAAGTT
GCATCAATTGCTTCGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 884>:

GNMPI71TR gnm_884

GGGGAAATAGAGGGAGGGGGTCGGGAATACAAGAGAGTCAGGAGAGTACATCACTGGGCA
GGCTTCCCGGGGCTGAGGGGGGCGGCGAAGAAGTAAAGGCTATCGGCATGAGCGTGGGTG
TCCGAAAAAGAGAATCCACTAGGCGGGGAACTTGGGTAGAATCGGTAGGAAGGTTGATCT
GAGTACCGACTTAACCCCAACTGGGAAGGGTAAAAACGGGTTAAGGGCCAATTAGGAACA
AAGTAAGAAGCCGATTCAGGTTAAGCATAATAGAGTGGCCGAGCGTTAGTCCAGAACCAG
AGGGGGGGTGAATTGTCAGGAAAGTAGGTGTTAATGGTTAAGAGGTGGTAGTAGTTTATA
TTTTCGTAGTAGATTAGGGCTTAAGAAAGCAAGGGGTCGTAGATTTTGTAAAATAACGAA
GAGGGTGGTGCAACGGGGGGAATGTATATAGAAGATATAGAAGAAGGAAGTGTTAAGATC
AGGGACCGGGGGAGTAAAGCGATTCGGGTGGCGGGTGGGGTGCGAAGCGGAGGTAGTCGA
CGAACCGGTGCGGCAAGAAGGCGTGGGCTTTTTCCTAAGCAGACGAATAAGGGGTTTGGG
GCTGGTTTAACTGGCGATGTTGAGGGTAGTAAATGTAGACATAGAGCGTCCAGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 885>:

GNMPI72TR gnm_885

CGTGCCAGGTTTCTTGCTCTCCCAAGCATCCCGGGTAACAGGCTACGCGGCGTCCCAAGC
ATCCCGGGTAACAGGCTCCGCGGCGTCCCAAGCATCAAGTTAGTTAGATCCAAATTGCTA
TTATCGTAGGTTTATCCAACGCCCAAGTGACAAGTTTCCCCGGGTACGTAGGGTTCAGAC
AGGTTTCTTCTCGTCCCCCGTGACAGGTTTCTTGCTCTCCCAAGCATCCCGGGTCACAGG
CTCCGCGGCGTCCAATCTAATGCAATTCGTAGGTTTATCATACGCCCAAGTGACAAGTGT
CCCCCGGTACGTAGGGTTCAGACAGGTTTCTTCTCGTACCCCCGTGACAGGTTTCTTGCT
CTCCCAAGCAGCCCGGGTAACAGGCTCCGAGGCGTCCCAAGCATCAAGTTAGTTAGATCC
AAATTGCTATTATCGTAGGTTTATCAAACGCCCAAGTGACAAGTTTCCCCGGGTACGTAG

GGTTCAGACAGGTTTCTTCTCGTACCCACGTGCCAGGTTTCTTGCTCTCCCAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 886>:

GNMPI73TR gnm_886

GCTTAATATTCTTCCAAGTCTTATCAATAAATTTCTTCTTCGTCTTATTACGCTTGTCTT
AAGTCCCTTCCTAATTCTTCTAAGATGTAGTGCTTTCTGGGCTTTCAGAGGCAGTACCCT
CGCCGAAAGTTTTTAAATTCGCTTCAATACTTTCAGAAATCCTCTCCGTCTCTTCAGCCA
CCTAACTCTCCGTAGTTTCGAAGTAAATTCCTCTAGAAGTGCTCTTAGATGCAGCTCCAG
GGCAAGCATTAAAGATGTCGGTAATCCTAAACTTGCTCTTACGGTCCATCTGGTCGGGTC
CTCCGACGGCTCCGAACATGCTAAGCTTGTGGCTCTTACGGGCCATAAACCTCTAGTCAT
CCTCTCTATGGGGGTCATTCTCGTCGGTACTCATAAACGAGTCTCTAGAGCTTCGGGCAT
CCTCCTAGGTTTGGGCTCTCTTTCAGATACTGGCAGCTACTCTAACATAATTAAATATTA
TCGGATCAGATGTAGTAATACTAGTAATATAAATATATTAAGTACCATCCCAGTCTTTCA
GGTAAATATGAAGGGTAAAGGTAGAAGCAGGTTAATATGCAAAAAATTAAGTAAATAGTT
AACTGCTTCTAAATTCTGCTCCTAATTCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 887>:

GNMPI74TR gnm_887

GAGGGCATGGTCATTCTTAGTGTTAGCGGGGGTAGGTGGCCACTGGTTGCGGTGGGGACC
TCCATAACAAGGAGCAATTTAAATTTTGGTTCGGGTTCTTGCAGGATTTGGCATCAACGA
ACGAGCTTAAGTCCTAATCCGTACAGGCGACCTGGGCACTCCGGGGCCGGGCATAATCCG
GGGCTCCATCCGGGCCCGGTGCTTCTGGGTCCAGAATACTTGCTGGTTTCTGGGTAAAGT
GGTTCTGGGAAGTTAGGGCTTCGTTCAAGAAAATCCAGCCAGCTCCGGCCAAAGTACCAG
GGCCTGCGGCTTCAGCTTCGTGCAAACTTCCAGAGTCTGGTACATCCTAGGGGCAGGCTT
CCCGGGGCTGAGGGGGGCGGCGAAGAAGTAAAGTCTATCGGCATGAGCGTGGGTGTCCGA
AAAAGAGAATCCACTAGTCGGCGCAAGTGGGTAGAATCCGTAGCAAGGTTTATATGAGTA
CCTAATTAACCCCAACTGGGAAGGGTAAAAACGGGTTAAGGGCCAATTAGGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 888>:

GNMPI76TR gnm_888

GGCTACCCTCCTCGGCACCTTCATCCTCATCCGGGGCTTCGGCGTGGGCTCCTCTACCCG
TACGCGCTTCGGCAGGGTCTTGATATTAAACCAGAACACCGCCTCCTCCCTAAACTCGTT
TGCTAGGTTCAGCTTCTTAAACTTCCGGGTCCCCCTGCTCTTCCGCACCACGGCCATCAT
CCATCTCCGGATCTTCATTCGCTTGGTCGTCTCTCTCTTTGCTAGAAACCTGGTCAGCTT
CTTCTCGGTCCCTACTGTGGTCTTCGAAACGCTGGGTACATTGGGCAGAATTAGTACCGA
TCTCTTTCTCATCCGTCCCTACCAAGCGTTCTATACCTCTATCCTAGTCCTCGACTCCGA
ACGCACCAGCTTCGGGGTCCTTCTCTTCACCAAGGTCCTTAAGCTCGTGGCCATCCGAAG
CCGTCCCCTGGCCGGCAACAAGCAGCCCAAAGCGGTGGCGCGTAGAGCCGGGCGTTGGGT
CCCCTCCTCCTTCGGTACATCCTAGTTCGTAGGGGGGCGCGGGGAAAATCACAGACACCA
AAATCACGTTCTTCCTAAAGGTGATGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 889>:

GNMPI77TR gnm_889

ATAAAATAGCTACAGGGGCCTAAACGCCTTCGAGGCAGCCCTCCGGGGGTTACTCAATCA
CAAAGTGTCTGCCATACTCCTATTCTTAGGGGCAAGCTGGGAAAAACTAAACCTAGACAT
CTAGATCTTGGTCAGTTGAAACAAATTTTAGGCGTGCAAGGCAACCTATAACCGGGGTAC
ATCCTAGGTAATAGTTGGTATCCGATGGATCCTCAACATCCCCTCCGGTACCCGCTAGGC
CAATGCGGCCCTAGGTTTGAGATTCCTACTCCGCGTCTTCTAGTTCTTAGTCCTAGCCAT
AAAGATTCTGCTAAATGCAGGGCCTACCTAGGCCCAGGCTTTCGGTTTCACGGTCTTCGT
TGCTATCATCATATGCAGGGTCAGCTTCGTCAACAAAAAGCCCTTGCTTCAGCGGGCGCA
AATTCCTCCTTCAACCTACTACTCGACCTCGCCGAAAACGTAAACCAAAACCTTCGTGCA
AAACTCGGGATCAACAAGGCAAATATTGGTACCCTCAAAGTAGGCTTCAATCGGGGAGTC
CTCCTCCTCAAGAGGTTGCTTTCGTTGCAATCCTAAACCCTGCTTTCCTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 890>:

GNMPI78TR gnm_890

GTTCTTCTAATGGTCCGAGCTTTTCGTTGCAACCTGATTCTAAACTTTGCTCTTGCAGCA
ACGATCCTACAAAAAGGTCCTGGCTTTCGAAGCATTGGGAGTCAGATCTTCCCTCTCGAG
TTTCCTAGTCCTCTCCAACAATCTCCCTACGTCCAACTTAGTCCTAAAAATTGCGATCAA
TGCATCTCTTGCTCTCGGTTGCGGGGCGCGATTCGTAGTCCTCAACCTCCGGTAACTCCG
CTCGGCCTCCGTCTTTGACCTCAGGATCGTAAGAGCTGCTAAGATGTCATTGAGGTGCGG
AGTGTTTTTCAACCTGCTCTCGTGAGGGGCGCCAAAATTCTTCAAAACCTCCTCCAGCTC
CTGTAACTGGGCCCTAGGATGCTGCATTCTTGCTAAAACTGCCATGGCCGTCAGATTCGT
AGTAAACAATTAGGCCCTCCTCTCTAGTCCCAGGGTCCCTAAATTAGCAAAAATCGAAAA
CTTCGGGGCCAAAAATAATGCTATCAACTCTAAACTAGTTTCTGGCTTCAGGGCTGGGGC
TCTTCGGGGCATTCTAGGAGCCTGGATCCTAAAAGGGTCCAATAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 891>:

GNMPI80TR gnm_891

AGCGAAACCGATGGACCAAAGCAGAAAATAAAAGACGGGGCGGTTCGAGTTGCAACTAAG
CTGGTTGAAACCAGGGAAAGAGTTCTAAACGGAGGGAAAAGGACTGTAAGTTATGTAGCT
TAGGAATGATCAGCAATAAGAGGTGGGGTTGGCCGCCGGGCAAAAGCTACAAACTAAGAG
AGTACAACGAAGGCATAGGGAGGGGCAAAGAATGCCTAGGTTAAATTGAGGATTGGGGCT
GACAAATTAACACGCCCTGCTTGCGGGGCAGAGGGTACAGCAAGTACCGAAGTTGAAAAG
GAGACGACGGAAGGGACAGAAGATAGAAGAGGATCACATGGGGCAAAAGGGGCAGATGGC
CTGAAAACAACTGCAAAAGCAGCCGGCCGACTAATTCGACCGTCCAGGTGTCAAGTTCAT
AGGGGGTAATACTCCTAGGGTCCAAATCAGACATCTCGTAAAGAGGGGGCGTCCAGATAA
AGAGTTCATTGATAGTGTGCTCTACTAAATGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 892>:

GNMPI82TR gnm_892

CGGCGGGGTAGGAGGGGGTTGGAGTGCATCCCAGGTCCCGGGCGGGCCCACCCTCTCCTG
GTTCTGGTTCCCTCCTCTCTCCCAGCGCTTGAGAGCGCTCCGGTCCTCGGTCCCTCCAGA
GCAACTATCTTTGACCAGGGCGTAGGAAGGGGGCTTGGCCGTGTCCTGGTGGTTAAGTAT
CAAACTATTTCTTAACCTAAATATGCGCTTCTTCCTAACCCACCTCCTCCGGCTCCCCGA
CTTCTGTTAGATCACCAACATCCTAAAAACTACGAGTACCAGCCTCTGCAGCAACTTCGA
TACGGCTTTCTCTTGCGGCAACCGGGCCGTGGCTTCGAGCCGGGTCGCTTCCATCCTGGC

GGTGGGGGTTCTTAGGCTTAGAAGCTCCGTGCTTTTCGGCTGCAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 893>:

GNMPI83TR gnm_893

AACTGATGCCGGAGAGACAGACAGTTACGATGCAGGAGAGGCGTGTAACAAATGGAAAAG
GTACATAGGGAGAGGAAGGAACACCGGGGACTAACACGCTTCGTAAAAGAGACCCTCTAG
TAGTCAAGGTCTCAAACATAAATCTGATCAGCAATCGGGTAACCAGGGCAAAAAACAAGT
TAGACCTGAGTGCAATTCCTAGTTTCCGGCCGCGTTCATGATTGCAACCTCCTAAGTAA
CTGCGTCCGGTACAAAAATTAATAGTACTATCTTGAAAATTCGAGGTATAATTGCTGTTG
GGGTAAAATAGGGCTAGGGAAAACTTCGGAGAAGCTTCGTGCAATAGTGCTTTCATTATA
GGAGATCGCAAGCGTCCTACAGGCGGGGTGGGGCGAAATGGAGAGGAAAAGTTATGGATT
CAGGTATCTTAGCTTCnTTAGTTTGCTTTTAGTGCTATTAGTTCACTATATGCGTCTAGC
CC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 894>:

GNMPI84TR gnm_894

ATCATTCTCAGATCCTCATCCTCGCTCCTGTCAACGTCTTCATATTGCGTTTCTTGATAG
TTCTCATGGGTGCTGTCTCTAAGGTAAATGCATTCTTCTTCAATGTGAGTACCGTAAACC
TTTCCGTAATTGTCGCTCTTGTAATCTTCGTTTTCATTGACGTAATTCTTTTCAGGGCAA
AGGGTTTATATATATCTTCCCTACATGCAAACTTGGCCCTAAAATTCTCGTTAGAGGTCA
GGGCCGCTCTTAAGTCTTTAGTTGCTGCTATTATTTTGATTAAGTCGGTCATTTTCGGCG
TCAAAGCAGCTCTCAACTTCTTCTTCATTTTCTTCGCTGGCTTCGTAAAAGCATCAGGGA
TTCTATTCCTATCTCGGTTCAATGTCGTTCTCTTTGCAGCAACCTCCTATGTCTTCCTAA
ATAACGAATTCGTCGTCGTCAATGCAGCCTCTCGGGGCATCAACTTAATAATCGTAATGC
CCTCAACTACTGTCAACACCTCCCTCTCTATCGTCGCGATCCTCGCGGTCCTGATAAACG
TTATCTTAAAAGCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 895>:

GNMPI85TR gnm_895

CGCTGGGTCATGAGTGCTTGCAGCTGCGTCTGCGGCGGTAGCAACAAAGTGGTTCGCTTC
GCTTCTCTGGGCACTACAGTCCGTACTTTGGGGGTCCTAATTGCCCGAGGCCTAGGCGTG
GGCAGGGGCATCCGCAGCCACGGCCGCGCCTGTGTCTTGCGCAGGGCCGCTAGTATTCGT
CGAGACCCTCATTAAACTAGTACTATCGTCCAAGGCTTCAAACTCGGGGTCGTGGGGGGT
AGTATCTTCAGCATCCGTAACCCCTCGGGGTGCAATAAAAGCCGGGGATTTAATCCAGTT
CACGTTCTAAACACGGGCGTGGGCATAGGGGCCGTCAGCATCATCATTGCTCTCGCGGTG
GGTATAGTCGGGGTCGTAAATACTTCCTTTCGGGGTACTGGTACGTTCTCTATCGTCAAA
GAGGCGGTCTTTATCTTCGAAACTCACCTCCGTACCGTCCGCGGCTCCGAACGTACTCGC
TTCATCTGTCAACGTAGCCCTCGCCTCCAACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 896>:

GNMPI86TR gnm_896

TCCGTAAGTTAACCTCATAGGTGGACATTTGCGCGCGAAAGTACCCCGAGGGGGCTCGCC
AAAGTCGTAAATCTGGCCAGCAACCTGGCATTAAGTAAAGATTACAGAAATAAATGTCTA

GGAATTATAGGGGAAAAAAGTAACGGGGGCCAACGATGCTTATCGAGCGACCGACTGGGC
ATTCAGAGGGCTAGAAAAATGTTGGGCTGCCGCAAACCAAGGAGGGGCTTAAGGGGAAAA
GAGGGTGCCTATTAAAGACGATAAGCATAAACATAAGTAGCTTAAGCAGGAAAGTACCAG
ACTGACAAGCACGTAAGAATCGTAAGCTGTTTCTTCTGAGTATATTCAGAGGCAGCAGAA
GCGTAGGCCAGCGAAAAAGTAGCTGCCTGGGCAGAGCCAGGGTGGGAGGGGCAGGGGGCT
GTACGACAGAGAACTATACTTACGGGCTAAGTAAGCTTAAAAAGCTTCGCTTAAGTAGTA
CGGCAGAAGGCCCTACTGCTGTACTATTCAGAAAATCTTGAAGTATGGTGAGTATTTTAA
AGAATCTTAAGAGGAGTGCTCGGAGTTTTCTTAAAAAGCTTATATCGGGGGGAGATCTTA
CTCGTAGATTAAGCCTGCAGACTCTTAAGAGAGACATAAACTGCGTTCnTACTAGAGTGA
CATGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 897>:

GNMPI87TR gnm_897

GTATAGCTTCAGCGTCCTGGGTGCGGGCCGGGGCCGAAGTTCGGGGTGAATGGGCCTAGA
AGTCGGTACGGGCATCCTCCTAACCGGCCCCCTCAACCACATCAACTTCCAGTGGATCTT
CGGGGGTGGTACCAGCCTCCGGGTAAATTGCGGGGTCAGCTTTCAAGAGGGCAGCGGTAA
GGTCGTAACCGGTCTTTGGGAGCTTCGGGTTCTATTCTAAATTCTTCCCCGTAACTTTGT
CCTCTAGTTGCTTCCAATCCAAGTTTTCGCTGCTTCAGGCATCCGGTAAATTTTCTCTTT
CGGGTAAAGATTCCTCAGCGCCATCCATACCAGCTCTTGCATCAAAACATACTTCAGATT
CGGGTTAGGAGTCCTCGCCCTCATAGGAGCTGTCCTACTAAGGAGTTCCGTCAGGATTGC
TTTCAGATTAAGAGGTGCAAAAATCGTCAAGTGCTTGGCTAACATCTCCATAGGATTCGT
CCTAATTGTCAACCTATCTGCGGGCATCAACCTCCGATCTTCAAAAAGCGCTAAATTTTT
AAAAGAGCTGAGCTAGGTTCAATCTTTGGTCTAGATCCCTAAGATTGGCTTCATCTCCCA
GGTCATGATTGTACTGGTCTTAATAATTATACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 898>:

GNMPI88TR gnm_898

CGTAAGAAAAAATACTCGTACTCCTGGCAGGGGCCCTGCGCCTCTCTCGGTGCTTAAAAC
TCTCTCGGTTACTGGCAAAGCGGTCCTAATTCTTTCTGCTAGTAGTCTAGTTGCTATTCG
GGCTCAAGACCAAGAACCCGGCAGCATCCTATTTCGGGGTAATGTTAACTTCGGCTGGAA
TATTATTATCCGGGGAGGTAGGGGCGTCAGGGGTAAAGTTCAAAGACTTCCAGCCAGGGC
TCTTAAAGTGGTCTTGGGGCTTACGGCAATCGTGCTGGGGGCGTTGGGGTCGGGAAGGT
AAAGGGTCTGGTGGGCTTCGTTCATCATATTACGGGGATTCTTCTAGTTAGCTTCTTTGC
TAGGGTGGTTGCAAATATCTCTATCTTGGGCATTACTTTCGTCGGAAATCTCGTGATGCT
TCGTAAATCCGAAACTAACGGCGAAGAGGTAGTCGGAAAGCGGCTATTCGACTCTAAAAG
AGAGGCTCCGGGGAACTCGGGCAGAGGCTTTTATCGGGGTCTCTGAGTGTCCCGTCCCAA
GGGAGCTCCnGTCGTTATAAGTAGAAATCCCTCTATCCTACTTAAGCTAGTAATCCCAGG
CGTAAATAAAGTTGGTAAGCTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 899>:

GNMPI89TR gnm_899

GACAGACAGGCTCTTAAATCCAAAGTCTCCCTAGTCATCCCTACTTTCACGCTTAAAGGC
CTGGTAATTCGAGTTAGATTGGCCGTGGCTACAGCAGACCTCTCCAGGGGCGGAAGTACT
TTCAGCTTCCCGTTGGTTGCATCTACAGACATCAGCAGCTTCTCTTTTGTGCGTGCGATT
CTTTGTAGCCTTCTGGTAACGGCACCGTTCTACGTCTAGGGGTGTCACAATACTCTAGTC
ATTCGTACCTAGGTCCACGCCAGCTCTCGTACAATTCCAGGCTTCGTGCAAAAAGGATTC

ATCCGTACTCTCATCGCGGTTGCTTTCGGGCTTGTGGTAAACATCGCTAGTCGAAAGATC
TTTTAGGTCCGTCCTACCTCCTACCAGCTTATAGCCGGTAATAGGGTACATAGTGGTATG
TTTAGTGGGGTTCCTACATAGATTTAATACTACGGGTAAACCGGGCCATAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 900>:

GNMPI90TR gnm_900

CCTTGTGTCCCAACCTGCATTCTCGGCTACTGGCTACAATAACCGGAGTACAGGCTATGG
GGTCAGAAACCTGCTTCTTCCCCTCAATATCTTCTTCTTGAGCGGCTTCTTCTTAGCTGT
CTCTTGCTCCTCCAACTCCGTCAACTTATCTTTCAACGCCGTACCTGCCCTACCTACACT
AGTTTCTGGGCCTCTCCTAGTTCAGCTTCGTGCAATATCTATATCAGCAGCTACCAAAAT
CCTACTTGCAGGCGCGCCTATCCCTACCATAACTTAGGAGTTACTCACGGTCGTTCTTAG
TGTAAATCTCCTCCTCGACTCCAGCATCAAAGTCGTTCGGCCTCTCTTCATCATAGTCTT
CAATCTCAATTCTAATGTCCTCCATCGGGGGTACATCCTAGTGATTGCTTCATTCAACCT
TACTGTCATCCCTCCTAAAGAGGCGTGCTATGGCTTCATCTGGGCCATCAATGCAATCGT
TTTGCTTAGGCCCAATATCAAGCTCGTTTTCAACCTTGCTAACTTTAAGATCATGCCTGC
AGTCATGCTTCTCCTGATCCTCTAAAAATTCTCGCCAATTAAGTTTTTCACTATATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 901>:

GNMPI91TR gnm_901

TTCCTGGGCCCGCGGCTGCTCGGGGTTTTGCTTTTGCTGGTTCCTAGTAGGCTTCATAAA
GTTCTTTTGAAAAATTAATAACTTCGGAGGTGGTACATACTAAATCCGGGCTTCTAACGT
AAGAGGTAAATGTTCGTAGTTTAACCTCGGGTGCGGAATTCAGGTAACTACGGTCAGCGG
CAGCAAAAACCTCGAAGATGAAATAATACTTCTACTAAGATCTAAATCTAATGTCCGCCA
GCCAGGTAACCTAAGTTTTAGTGCCTATCTCCTCAACTCTCCCGAAGGCGCAATTACAGG
CATACTACGAAGTTGGTCGGCGGCAATCCGGAGAGTCAACGTCCTCCTAAATCTCTTCAA
CGACGTCGGCTTAAGTTCGTCCCTAGTTCGCGCAAGCCTCCTCCAGGCAGGAAGCTTCTG
GTCCGGATCTGCATGGTCCCTCGGTTGCGGGGCAAGAATCCTAAGTGCATCCCTGGGCAG
CGGGTGGTCCCGAAACGTCGCAGGCCCCCTAAACCGGGCCAGATTGTGCAGCTTCAGGAT
ATTTCGAGTTGGACGTCGCTGCTGCAAAGTAAGCTCCCTCGGGCCCCGAAACAGCGTAAC
CGCCGGGTCCCGAACAATAAAGGCCAGGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 902>:

GNMPI92TR gnm_902

TTACTGGTGCGATCATCCTGGCTACAGCGGCTACTATACCCCCTACCAGCTCCTCCCTAG
GCTAATCCTCCAACCTCCGATTGGTTAGAGCTATAAACCTAAACCTAGCCGCTCTCAACG
CGGTTCTATATCTAAGAGCTCTCAGGGCATTCCTAATCTTCCTAGTCCTTATCGTTCGGA
GTTGATGCTCCCTAATCTACCTACTACTCTCCACCTCTACTTGGGTGATCGTACTGTCTT
CGGTCCTAGTCGGGGCCTCTATAATCCTAATTGTATTAATATGCTTCAATGCGAGCAAAA
TCGCGCGAATAAATATTGCTCTTATCGTAATATTACTGTTCAGGTTCAACGTGGCTGTAA
TCGAGGTCTCTATCAAGGATCTTCTCAACGTGTGAAAAATCTTCATTTCCATTCCTGTAA
GCTTCATAAGAGGGGTAATCTTCGGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 903>:

GNMPI93TR gnm_903

GCAAAACCTTCGCTTCAGAACTTAACGCGCGGGGGGCTCGGGCTCTGTCGTGGCCTCCAG
CCGGCACCTAAGCATTCGGGTTAATAGTCAAAAGCTTCAACGTACTCGCCTCAAAATCAT
TACTACTAGAAAGATTCTAAATAAAATTCGATTCAATCCTAGTGGTAGAAATATGCTCCC
TAAGATCAGAAAAAGTAAGTTTCCTTTTGCCTGTCCGGTAAAATTCAACCTCAATATTCC
TCCAAAAAGTATTACCTTCCTAACTACTCAAATTAACACCGGTAGTTATAGAAGTCGAGC
CTTCCAATCCAATAGAGTTGCAGTGGGGTTTAAAGAGCAACTCGACCGAAGTAGCCTCCA
AATCTTCAGCTGTAACCTAAAAAATCTTGCCTTGAAACTTCGAAGTAGTCGAGTCCTGGG
AAACGATCATTAAGGTCCGGGCACTACCAAACATATCTTTGTTAGGCTATTTCCTACTCG
TACTCAATCCAGGCTTACTCTAAGAAACACCAGAAATACTTTTCCTAGTACAGAATCCGG
GCTTGGGGTAAGCTTCGTGCAAAGCTTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 904>:

GNMPI95TR gnm_904

TTGGGAATCGCTTGGTCAATATCCGGGTCTTCGTCTCTAATACTAAGATTCTTGGCTTCG
CCGTCTCCGGCCTACTTGCAGAGGTTCTTATAAACCTCTAAAGTTCGTTTCTCTAGAGGC
TAATAATATTCTCGTTACGGTTATTAATACTCGGGTTACTACTATCCTCCTAGTCCTAGG
CTTTTCTTCTCAGCTTCGTGCAAATACTCAGGCTATCCAACTCCTAGGGGTGATGGTTGG
CCCTACCATAAAAGGCAGCTTCAGATTCATTATCCTAATTCGGGGCTTCTTTCGTTGCAT
TCGGGTAAGTACAAGCTTCTTTAAGGGCGTCTCGTTCATAATTAAAGTAGGCCCTTATGG
AAGTGCTATAGTTAAATTGAAATCTCATAACCTCTCTTCATATCTTATGCTTCTAATACC
TCATACTCAATTTAATGTAGATGCTCCTTCCGTAAATATTTACTTAAAATGCAATAGTAC
ATATGTCTTTAAATCCGCTCATTATGGTTCTTTTGCTTCTTTTTGCTTTGGATGGGCTAC
CGCCCGTATCTAGAGCCGGGGCGCTCTTGGCGTTCCTCTAAGTTCTCTTAAGGTTACGAG
TGTCGTCGGCTGCCATCTCTATGTCGCTGGTAAGCTTCGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 905>:

GNMPI96TR gnm_905

CTCCCGGGTCTCTTAAATCACAGACGTCTCTACCCCTCCTAGACCTCCCGGCAGCTACGC
CCCCTACAGCTTCCGCCGCGTGGTCGTCGTCTGCGTCAGCGCCGACCTCGGCCCCGTCAA
CTCCAGGGCTGCTAGCATCCTGGCTCTTAAGCTTGCTCTTGCAATAATCGTCAAAGGCAA
GGGGGTCACCAGGGTCGGTAATACCTCCAGGGTCTTATTCTGAAAGGTTCTATGCGCGGG
CACCAGCACCTCGGCAGAAGTGGTCGGCGGCAGGGGACCTAAGAAAGTCCGGGGTACCCG
TAGCAGGGGAGCGTCCCCCTCCAAGCCTGCAACTCGCAAGGAGACTCCAGAGCCTCCTCC
TGCGGCTAAACTGGCCAGGCCCGAGTCGTTGTAAAATGGGAGACGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 906>:

GNMPJ16TF gnm_906

GTTGTCCAGTGGGGGGGGGGGCTTTCCACATCCAGCGCGTCTTTCAAAATCGCAGCGGT
ATCGTGGTATTCAAAACCTTTCAGGTCAAACAGGTTGCCCAATACGCGCAACACTTTCCA
CAGCGGACGCGAATCGCCGAAGCCTTGTACCACGCCGTGGAAGGATTGCAGACGGCCTTC
CATATTGATGAAGCTGCCTGAGGTTTCGGTAAAACGGTGCAACCGGCAGCAAAACGTCGA
AAACGTCAAGCACGGTTTCGCTGAAAAACGGCGTAAACGCAATCAGCCTTTTGGCCGGTT
TCAACGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 907>:

GNMPJ71TR gnm_907

GACGAATCGGTGTGGACTGAGATGGCAAAGATCGTGTTGACCCTTAAAAGGTCGCTTAGT
GGCCCGGCCCCTAGCCTACTAACGATATCGGTGGTGCGTGTTAGCTTGTCCGTCCTAACT
ACTAGGTGGCTGGGTCCGGTGCTGTGTAGTACCCCTCGTATGGCCATGTTTACCCGTGGG
TTGGTGGCGTAATATAAATAGTTGATGGTGACCCTCGTTATAGGGACGTTGCCGCTGTCT
AACATTGTGTTGCTAACGTTGACCCTGTTGAATCTGCCGATGACGACGATTTACCCCCTG
CCTGGGCTCCCCCGTGTTACTAGGTCCCCGAGTGTGGCGGCCCCGTTCGCCGTTAGAAAA
TTCGAAACTAGGCGGATCCCGGCCCACCCTACCCTCACGCGACGCTTTATCCCAAAACCC
GAAGACAGGGCGCCCCAAACGACCAAACAACGCCAAAAGCGACGGTAGTCGCCACTACGC
CTCCTACTAACCGATAACCGGCTTAGTAAACCTGACACACTGGTCGATACTGTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 908>:

GNMPJ73TR gnm_908

GCGTGTGCGAAACGGTGTAGGACCCGGCCGACCACGTTGACGAAATGGCGTTGATTCGTC
GGCGCCGGGCATGTATGGATGCATTGGGTCGACGTATTCCCCAACGGGTAGCCCCGTTGA
AATGGCAACGTGTTAAAGTTATTCGTTGTCCCCGACCACTTGTCAGTACAAGTTGAAGAG
GTGCAGAAACCCCTAGCCCGAAGGTTCCAAACGCGACCCCCTACACCCAAGGTCCCCCAA
CCCACTCGCCCCCAATGGGAGGGTAGCACGTTCGACCATACTTGTACTCTGTGTGTTGCT
GATAGTTCGTGTGACACTAAAACTATTTTCTACCCTTCGTTGTACATGGATGGCCTGCGT
TCCACCGAACGTGGTAACATTAAAGCGACCCGCATTGTCCTTACAGACGAAAATGCCTTG
TTGCCCTCGTGTGGCAAAAAATTAAGGTCGGGCAATGGTGGAACATGGACGTCGTTCGTT
CTAATCGTCCTTTGGACGTCTTGTGAAGTCCTGGTGGGTAAATAGCTTGGGTGTATATAA
GAAACTTAATGCCCGACTGGGTGCCTTTCGTGTGTGGCTGCGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 909>:

GNMPJ75TR gnm_909

CCTGGGTAAAGTAAACCCCCCTGGTAAAGTAAAAATTTTGAACAACTGGGGGCCCCTCGA
ACGGGCGCCCGGTAGCGATTCATCCCTGTACGGAAGAATTATATCACTACTGGTGTCGAG
CTGCCCTATGGCTTCGCCTGGGACGGGAAGGTGCGGGATTAATCTGTCACGGTTGTTAAA
TCCAAATCGCCATAAACTGGCAAAGTTCCAACTAACACACCTGGCAACGATCGAACTAGC
TAGCAAGTCCCCACTCTCCGAAGCCTCCTAAACGACAGAGCTAAGTTCTATGAGTAACCA
GCACGGGCCAGTCCTATGTGCCATTGTGTCCCTATATTTTATTCACTAATGCTTCGGCTC
TGAATGATCTCCCAGCGTGGCCAAATTGTAAGGGAAGCTCTACTCCTAGGTGAGCCCTGT
GTCCAGACGTCCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 910>:

GNMPJ76TR gnm_910

TTGCGCTAGGACGCTCGTTCGACATAGTTATGTTAAAAACGTGGTTGTGTTTGTATTGCG
CGTGATAATGGTGATGCACCCGTTGTGCACGTGCCTAAACGTTGCTCGAAGTTTCGTTCG
TTACCTTTTCACGTCCCGATTGGTTGATGTCCTGGATACTCGTATGATGGGACAATCGAC
TGTTTAATGGCTCACTTATACTCGACTTCTCTTGGTACTGTGCACTAGTTAAAGTGCTAA

ACTCCTGAGCCTAAAATTTCGTACATTGTTTTGTTCACCCTAGTAGGCTTTGGAGGGCAA
AGGTGACGAGTAGTGAAGTGGGCATGTCTAACACGGTGTAGATGGCTAGGTAGGTAAAAA
CACCTATTATTTGTTGCTAGTTCCCTTAATTTAAATACCCGGATGTAACTAGTAGGTAGG
GTAGGTAAACTAGTAGTTATATTAATGTTTACACTGGCCCGTTCCGGCTGGTGTAAGTT
AGTTCCGTACTTGTGATAATACAAACACTGTTTATATTAATACGGGTAGGACAAATGTAG
TGATGATTTACGTTGTGTTCACCTTCGCCCCCTTGCTTATACCTTAACTACACCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 911>:

GNMPJ77TR gnm_911

TAGGCGTGGCTCCTCGTGGTGGGTCGGCAAATAAGGCCGAGTTGTTTGCCTGCCCCGGCT
GCACTCCCTCCGTTAAATTAATTGCCGCAGGTAACCCTCCCCCCGTCACTTAAGTCGCCG
CCACCGTTGGCCGCAGTAACACTCCCACCGTTCGCAACGGCAATGGCGGACCTCCCGCTC
CGACCGCGGCCGATAACTACTGCTTTCCTACTGGCACCCCGAACATGGCGGAATTAAAGT
TAACGTTTGCCCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 912>:

GNMPJ79TR gnm_912

TTTCAGAACGGGTGCTATTCATACCGTGCCAGGTTTCTTGCTCTCCCAAGCATCAGGTCC
CGAGGGTGCATCCGGTCCCTAGGTTTCATAACCGCCAGGGGTAACCGCGGCGAGACCCGC
GACCACCAGGTCGAAAACCGCACGGAGACCCGCCGCAAACAAAGCTCGCCAATTCCTCAG
CCGAAGCATCCCTAAAGTGGCTCCGGTTCTTTAGGGTACGCTGGGTTTCAGGGTCATCAT
GGTCGTGGTTCTCTTCGCGAGTAGTACTCGGGGCCTAATCGGCCCAATCCTCCATCCGGT
TCCATCCGTCCGAGACGCCTACATGCTTCTCTTCAGCACTACTAAGAAAGTCCCGCGCTC
TCTGGCGCTCCTAAAGCGCCTCATAGAATTCTTCAAACACAACTTCCAGAACCTAAAGGT
CCCCCTGGTCCCCGCGGCCCTCTCCCTAGAAGTCAGCATCCTCACCTACGTGGCTCGGGT
CTTCTCGTTCGAAGTAGCGCGCTTGTTCTGCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 913>:

GNMPJ80TR gnm_913

CGTCGTGCAAACTCCTGGTTGGCCGCCGGAAATTTAGGGTAAGTCTCCGGGCCCTAACTG
CCGCCGCTACTGTCTCTTATGTCTCTAGTTCTACCGCTCATACCAAAGAGGCCTCCCATT
ATGCTATTACTGCTGGCGGCCATAACTTGGGAGTCTCGGTCTCTGCCAACTGCGTTTAAA
GCGGTACAGACCTAACCAAAGTCCATGCTGGCGTCCGAAAATCTGTCGCTCTTGGCCTGC
AACTAGTCTCTCTGGTGACTCCTTCTGTCTCTCCCGTGGCAAGTCATACTCTCCATCTAA
GTATTAAGAGGGTTCCTAGCTACGTCTCGGGTGGTCTTCTTACTAAAAGCTCTCTCAGGG
GTCCCGTCAGCCCGACCTCTCTGAGTGCGGTCTTCACGGGCCGTAACTCCGAATCTCGCG
GCCGATTCAGAGCATTTCAATGCGGGGCTACCTTCGTGCAAATAGGCCTTCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 914>:

GNMPL04TF gnm_914

TGAGATAATTCCCGCCTTGGATAGCATGGAAAACATGACCGAAGAGCTGCAACACTGCTT
TGAAGCACCTTTTTACACGCTCGGCCCGCTCGTTACCGACATCGCACCCGGCTACGACCA
CATCACCTCGGGCATAGGCGCGGCCAATATCGGCTGGTACGGCACGGCGATGCTTTGTTA

CGTTACCCCGAAAGAGCATTTGGGGCTGCCCGACAAAGAAGACGTGCGCACCGGCATCAT
CACCTACAAACTCGCCGCCCACGCCGCCGATCTCGCCAAAGGCTGGCCGGGCGCACAATT
ACGTGACAACGCCCTGAGCAAAGCGCGTTTCGAGTTCCGCTGGCGCGACCAATTTCGCTT
AAGCCTCGACCCTGAACGTGCCGAGAGCTTCCACGACGATACTCTGCCTGGCCGAAGGCG
CGAAAATCGCCCACTTCTGCTCGATGTGCGGCCCCAAATTCTGCTCGATGAAAATCACGC
AGGAAGTGCGCGACTACGCCGACAAGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 915>:

GNMPL55TF gnm_915

TCCTACCTTTTCTTATATGCTCCAGTGCAAAAGTAAAAATACCACTTGGGATATGGAGAG
GGTTTAAACTTTGTATTGGGTTGGCACGACGACCATCAAAACCTGCCCGTCATCGCCAAA
ATCGCCGAAGATTGCGGCATCGCCGCCCTTGCCGTCCACGGACGCACGCGTACGCAAATG
TACAAAGGCGAAGCGCGTTACGAACTCATCGCCGAAACCAAATGCCGTCTGAACATCCCG
GTCTGGGTCAACGGCGACATTACTTCGCCGCAAAAAGCCCAAGCCGTCCTCAAACAAACC
GCCGCCGACGGCATTATGATAGGGCGCGGCGCGCAAGGCAAGCCGTGGTTCTTCCGCGAT
TTGAAACATTATGCCGAACACGGTGTTTTGCCGCCTGCCTTGAGTTTGGCAGAATGCGCC
GCCGCTATTTTGAACCACATCCGCGCCATACAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 916>:

GNMPL69TRD gnm_916

AAGTTGGCAACGTCGTTTGCTCGTACTTAGCCCGACCGTTTGCTTGTCGTGGCCGAGGGT
GGCAATGGCTAACCTTGTACACCTGAACGCCCCCCTCCGCCTGCGAAACGTTGCTAGGCA
AGGCGTAACAAAAATGGTGGATAATAGTAGATAGTCCACGGTGGTAAATTACATTTAGTG
ACAACACAGCGGACCAAACCCAAATTAGCATAGTGCCGTTCTGTTCCAGTCTAAAGAGAA
TGACCTCTCAAGGCGTCGAAGTATTAAGCGAACTGGCCTTGCATCACCCGCATCGCTCGT
GGTCCTGCTGTTCCGCTTCGACCCAAACCCAACTTATCACACCCTATGTCCATTTTCCGC
CCTCTAAACGTTGCTCGAAACAAGTGGTCCAACACACCGCCCATAGCACCGGGAAGTACA
ATAGATAAAACGTTGCTCGAAACACCCCTAGATGGGACCCTCCACTTGAAATGGACCACC
CCCGTGCCCTAATTGTCCCTAACGTATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 917>:

gnm_917

GGCTAGGGAGAGGGCGGCAAACCGTAGGTTTGCTTGAGCGGTATTTTCAACATACAGGCT
GCTTTTCAATTCGTTGAAACCGCACTTTAGCTTCGCAGAAACCCCCCGCTTCCTTCGGAA
GCTCCGTTTTCAGACGACTCCCTACTTTTTCCCCGCCGCAACGGGTTCTGCCTTTTTAAA
CGCCGCCTTCAACTGCTCCGCCGCTTGATCAAACTGCGTCCGATGTTGCCTkTCATCAGG
CGCAGACCGCCGTCGGGGGAGAACGGGTTGTCAGCTTTGCGCAGGATGTCGTCGTTGCCG
CTGGTTTCGGGGGCTTCGCGCCATTCGAGTTTCCCGTCGTTAAGGATGGCGGCGGTACGG
TCGATGATGAAAATCCAATCGGGGTTTTTCTCTTTGATGTATTCGAAGGAAACAGGCTGC
CCGTGCCCCTGCGTTGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 918>:

GNMPO23TF gnm_918

ACTTCATGTTACGTTCAAAAATTTAATGCACTCAATATATTTTTTTAAGGAGAAGCAGGT
GAGTCAAACCGATACGCAACGGGACGGACGATTTTTACGCACAGTCGAATGGCTGGGCAA
TATGTTGCCGCATCCGGTTACGCTTTTTATTATTTTCATTGTGTTATTGCTGATTGCCTC
TGCCGTCGGTGCGTATTTCGGACTATCCGTCCCCGATCCGCGCCCTGTTGGTGCGAAAGG
ACGTGCCGATGGGCGGCGCATGAAGCGGTGTGCGCCTTCGACGCCGCTGTCGCTCCATTC
GAGGGACTGTTCGGGCGGTGCGGCGAACATCATAAACAGGCGGGCGGTGTCCGCGCCGTA
GGCGTTAATCAGTTCTTGCGGATCGACGCCGTTGTTTTTGGACTTGGACATTTTTTCCGT
GCCGCTGATGACGACGGGCAGCCCGTCGGCTTTGAAGACGGCGGAAATGGGGCGGCCTTT
GTCGTCGAACGTCAGCTCGACATCCGGGGGGTTGATCCAATCTTTGCCGCCTTTGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 919>:

gnm_919

GCGGGTTCGGAAATTGTGCTGAACCGGATTATCTGCTGGGAATTGCTTTGCCTGTTTGGA
GCGTGGCGTATTTTCTGGCGGTTGTCCTGACGGTTTGGTGGGCGTGGGCAAGGGCTAAAT
AAATCAATGCCGTCTGAAAGGTTCAGACGGCATTTTATTGTATGTCTGCTGTGCTGCGTA
TCAGTCCAGATTCAATACGGCGGAAGTGTAAACGTCTTGCACGTCGTCCAAGTCTTCCAG
CGCGTCAATCAGTTTTTGCATTTTGACGGCATCGTCGCCGGAGAGTTCGGTTTCGTTTTG
GGCGCGCATCGTAACGTCGCCGTCAACGGATTTGTAACCTGCCGCCTCCAAAGCGGATTT
TACGCCCGCCCAATCGTTTGGCGCGGTAATGACTTCGATGGAACCGTCGTCGTTGGTAAC
CACGTCTTCCGCACCGGCTTCCAAAGCCGCTTCCATCAGCGCGTCTTCGTCAACGCCGGG
TTCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 920>:

GNMPP87TFB gnm_920

TATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCC
TGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 921>:

GNMPS93TF gnm_921

CGAAATTTCATGCCTTCGGCTTCTTTGGTGAGCTTGACGCAGAATACCATGCGTGCCAAA
ACGGATTCCTTTGCTGTGTTCAAAAATAACGGGGTGATTTTAACCGATTAAGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 922>:

GNMPS95TRB gnm_922

CACCTCCTCCACCCGAAGAAAAAAATTGATCCGGGTGGAATGGGGTCGGCGGCTGGCCCC
GTTAATAGTAGTCCCGAATCGTCTGTGGGTACTGGTGCGCCCGTTGTACCGGGTCCCACG
GTGTAGGTGGGTGGCAAGGTGGCTAATGAGGCCGTTCTAGGTGGTACTGGCCCGGTGCCC
ACTGTTCCCTTGATTACCACTAATTAGGTATTGACGGGTCGGTCGACTGGTACACCGCCC
CCTGGCCTGTCGGCGCCTGTTGGTGCCATGCTGACGACCCTTACTTCCGAAGCGACCGCG
GTGGTGACCTAGGATAAGTCGAATACTGGGTGTGCTAATGTTATGTCGTCGGCTCGTACC
TTGACGGGTACCGCCCTTATGTCGTCGCCTGGCATGGTGATGGTGTCGTTGGCCCCGGAT

GCGACGGATAAACCTGCTAATATTCATGGGACCGCCGTTGTTGGTCCCGCCCACGCCGTT
GTTACTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 923>:

GNMPU24TR gnm_923

GGATGGATAAAGGCAGCCGGCATTTCTACGCGTCTGTTTTAATACATTGCGGGATTTGCT
GCCTGACTGCCTTAGCCCTTGCTTTGCGCGAAACAAAGACCCGTAAACCGTCTATATTCA
AACGGTTTACGGGTCTTTTTCTCTCTTGCCGTTTTCTTCAGTTTGCCGATCCGACCACG
CCACCGCCGATTCCTTCAAACGGTTTCCCGCGTTCTTCCCACTTAACGAACATTAAGTTC
TGCTACTGCTTTCAGCCCAATGTGGAAACTTGCGCCCTGTCCGAATGTTGCTGCGCGCTT
TGCTGAACTTCCTGCCCTTGGCTTTCTTCTTTGTATGGGTTAAACAGCAAGCCGTTTTTT
ACATAGTCCTTGCACATCAAATCCGTCACTTCTTTCACTGCCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 924>:

GNMPU24TF gnm_924

ACGCCGTATATTGACTGCATTAGGCTTGATGGCGGTAACCTATTCAGGGGTGGATAGATT
GGTAGCCCATTTTCAGCAGGCGATAACCAATAGCATAACGGGCGCGCCTCAAGCGATGTT
GCAGCTTTTTTATATAAGCGGCGGTGGAATCGTTCTTAATATCCTGTTTGGCGCGATCGC
CTTTATTCTGTCATTCATACACCTGACAAAACTAGCAACCTCAATCGGGAAGAAAAAATA
AATGGTAAAGATATGTTTGATAACCGGCACGCCCGGTTCAGGGAAAACATTATGAATGGT
TTCCATGATGGCGAATGATGAAATGTTTAAGCCTGATGAAAACGGCATACGCCGTAAAGT
ATTTACGAACATAAAAGGCTTGAGAATACCGCACACCTACATACAAACGGACGCAGAAAA
GCTGCCGATATCGACAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 925>:

GNMPV25TF gnm_925

TTACAACACGGTTTCTTTAGATTTTACGTTCTAGACACTAGTATGAATCCCTGCACCGCG
CAACATCGCATCTGCTAGATCCGCCGCCTATCATACCACTAGCGGTTGCAGCAATCGTAC
TTCCTGTTGAATCACATTGCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 926>:

GNMPV30TF gnm_926

GCTTCGGCTTTTTGGCGAGCGGTGTTGGCATCGCCGTTTTTTAAGATGCTCAATACTTGA
GTGGCGTTTTGACGGATTTGGCTTACCGCGTCGGCAGGGGCGGCAAATGCCATGCCGATG
CTCAAAATACCGATGCCCAATGCGCTGATGAGGGAGGATTTTTTCATGATTAAGTGTCCT
AGTTTGAATATGATGGCATACGTTTATTCGGCGGCTTTTTCCGCATTCCTTTGCGCTTGC
GCGCCGCCTCGGCCTTTTTGGGGTAAGCGTCGGGTGTCCAAATACCGTCCTCTTTGAGCC
GCAGCTCGGTTTGCGTACCATCCATGCGGGATAGCATAAACCGCCGCCCCATCAGAAAAA
ACACCGCATCGATACCGTGCTCGTCGTCGATCACATGCACACGCAGGCCAGGTTGCCACA
ATACGCCGTCGCGGGTTTTATGGCCGCCCACGGTTATCGTGAGTGTAAATCCCTCCAGCC
GCCAGTCGGCCAGCTGCTTTTTAGCCTGCTTTTGCAATGCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 927>:

GNMPV42TF gnm_927

GTCGTAAAATAGCCCTCGAAAATCAAATGCCGTCTGAACATTTCCCGTTTCAGACGGCAT
TTTTCAAACCGGACTGACGCATCGGGAGCAACCGCCCGCACCGGATAAATTTCTGCCGCA
GACAGTTTCAGACGGCATTTGCCGCCTGTACAATATAGTGGATTAACAAAAATTAGGACA
AGGCGGCGAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCAC
CTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAGCGCCGTCCCTCGCAATATCCGTC
CCGCCCGCTGCGGCGGCGGATACGTCTGCCTGCGCCAAAACGGGCGCGTCGTTGATGCCG
TCGCCTATCATCAGCACTTTTTTCCCTTCTTTTTGCAAGGCTTTGACGTATTCCAGTTTG
TCCTCGGGCATGGCTTGGGCGCGGTAATGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 928>:

GNMPV63TRC gnm_928

GGGTAGTGAGGCCCAAAAAAAGTTTTGTTCCATTTTGAATAGGCTGCCCTTGTACTTGGT
AAGGCTCCGACGATGAAAGATGACACCCCGGTAGGCTAGCTCGTACGGTAGATCATTGGT
GGCACGGAAGCTGGCCTGACCCCGGGCTATGGCGTACACTAGGTCTTGGATCGGATGGTG
GATCGGTCGTACTGCGAGCCGGCCGTTCGGCCGGACCCGATTGTGTAATAGATCCATGGT
AAAAAACCTGATGAGGCCCTTTTTGAGGAATAAGTTGCTCCGAAAATATGTTCGGTTGAT
GAACATTGTAACTAAAGTTGTGCGAAGGAAGATGGTAGTGCTGCTACTAGTGACATGTGT
GCGAAAGTTACTGAAAGTACTTCGTTCCATCATTATGGCGCGCATAGTGATGACTTCAAG
CCTTAAATTATCTGTGAATATCCCGTAACGAAAAATAACATACCGTTAAGTTAAGAAGTG
TGCGAAAAATCGCCTAATCCTCCTCCTCGGATCCTCCGGCTCGTCCTGATTAATTGCTTC
GATGAGAACCCCATCCATATTAATAATCGGTTGTATGAATTCCCGACTAATAATGCAGTG
ATTATCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 929>:

GNMPW59TF gnm_929

CCAACAGGTGCAAAATGGTATTGGTGCTGCCGCCCATCGCAATATCCATCGTCATAGCGT
TTTCAAACGCTTTTTTGGTGGCAATGCTGCGCGGTAACACGGTTTCATCGTTTTGCTCGT
AATAGCGTTTGGTGATTTCGACAATCATACGGCCGGCTTCGAGGAACAATTCTTTGCGGC
CGGCGTGGGTCGCCAAATACGAACCGTTGCCGGGCAGGGAAAGGCCGAGTGCTTCGGTCA
GGCAGTTCATCGAGTTTGCCGTAAACATACCCGAGCGTGGTCGGCACGCTTGCCATGTTT
CTTATCGGCGGCGTACTGGTCGCCCACAACCTCGGCCTTCTGCACGATTTCCTGCACGCG
CAACACTGGGACGCTGGCTGGGCGGAGTACTTCGCCAACTTCGTTGTCGGGCTGCTTTCC
GGTTCGATTGCCTGCGCTTCCGCCTTGCCGCTGATGAATCGTTTCGGCAGGCATTGATTC
CTTTTTCACATACCGATGCCGTTTGAAAGATGTTCAGACGGTATCTTCCGAACCAGACAG
ATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 930>:

GNMPW71TR gnm_930

CTACTAGATGAAAACATAGAGGTAGAATTTCATGACATCAGCATGGGCAATTATATTTTA
CACATGACCCTAAAAGCACAGGCAACAAAAGCAAAAATAGACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 931>:

GNMPZ21TR gnm_931

GCTCGGTACACCAGGAATGGTCAGCAACTTCACAGAACTCCTAGTGCCACCTTCCTTTTT
GAACTTTTATGACTTCTGGACAGCGTCATGATGATTGTCAAGTGTCATGACACCAGTGGA
AGTGTCTTTTTTTCACATCCCCTTTAACCAATGCCACTGCGCTGCCTGCGATAATCTGCG
AGTAGGCTATGACTTTTTGGCGTTCTTGGGGTGACAGTTTGCCTACATCGCGTCCGTCCA
ACAGGGTTTCTCCCACCATCTCGCCGACTGCCGCGCCGATTGCGCCGTCTCGACATTTGC
CTTTATTTGCTACCGCCGATGCACAGCCTGCTACGGCATGCGCTATCTTGTGGGCAATGT
AGTCTTCGCTGAGATTAAGTTTGATTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 932>:

GNMPZ44TR gnm_932

ATCGCCCGTCTCAATAACCAATAAGCCTTTGCTCTCGATCCGACCACCATTGGAGATAAA
TGTGCCTGCCGCTCCTTTTTCGGTGGTTTCGATGGAGAGATAAGTCGGTGAAGCTTCGGT
GCCGTCGGCAGTGGAGGCGATGCGGCCGCTGTTTTCAATGCGGACTGACGAAGTCACAAG
CAATTGCTTGGCCGCTTCGAGTGTGACGGCATTTTTGACGCCTACGCCTTTTTCATTGGC
AGTCAGTGTGATGCTGTCGGCGTACATAGCGCCCAGTGCGGCAGTATCAAAGGCAATAGT
CGGTTTCGTACCCGCTGCAGTACCTGCACTGATTTCGCCGCTGGCGTAATCTACTTTCTG
AGGACCGGTAGAAACCGCCAGGTTTTTACCCTGTAATTTCCCCTGCAGAGCAACTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 933>:

GNMQA27TRB gnm_933

CAACTCTGCGGATGGGGCAGGTAACTATGTTGCCCCTATTTAAAAATTTGTTGTGTTGTG
TGAGCAGCTATTGGCAACGGCGCCTGTGTTTCGCTTTACTAGCCTGGCCATTAATAACTT
TGCTTTTACCCTCCCTAGTAGGCTGGACCGTGCCCTGCGTGCACGGCCTAAACATAGGCC
GCGTGTGTTGTTGGTGCCGTTTGCGGCTCGTACATTGAGCCCGTGTGTGTCGCAATCGTC
GAGGAAACAGTTCCTGATAACGTTGCCCCGAACTATGAAGTGTGGCGTGGCGGTAATGTT
CCTTGTACTAAAACAGTCGTCGTGGAAAGAGTGGGGGACGCGTGGCCTCCTGTGTAGGCC
GAGGAAACTGGGTAGGATCCCCCCGTTGACGTCGCTGACTAGGAAATCGTCCCGGTGGCA
GAGTGTGTTGTTGGAGAGCGTGTTGATGAGGCGCTTGACAAGATTGTTTGAAATGGCGGC
ACTGAAGAGGATGGGGCAGTCGTTCGCTGGGACGTCGTGGTCGTTGAGCTGGTGTAAAGC
CTGGTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 934>:

GNMQA92TF gnm_934

TTTCGATGCTGCCTTCAAACGCGCCGATAACACGGCTGGCGAGGAAGGCGGTGCAGAGGT
TGACGGCGAGCCACATCCAGCGGTTTTTCACCGAATCCCACACGGGGGCGAACAGGTCTT
CCTCTTCCTGCAAACCCGCCATATTCAGCATATCCGCTTCCGATTCTTCGCGGATCACGT
CCACCAGCTCCTCCCGGTAAAGTCGCCGTATTCGGTCTTTTGAAGCGAAATGGTAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 935>:

GNMQB81TF gnm_935

TATTTTATCAGAATGCCGATGCTTGTTCTGTTTCAAATTAATTTCTTTTCAAATAAATTA
CTTATTCGGATTTGCCGGGGCTTTCGGATAAATTCCTTGCCAAGGTGCGGCATTGCCTGC
ATAATTCGCTTTCTTTGCCGGGATAGCTCAGTTGGTAGAGCACCTGACTTGTAATCAATC
AACAATTCCGGCGTTTCCACGTCATGTCCGGCAATATGGGTGGCAAAGTTGCCGCCGCTG
TAGGAGATGAAGCGGTCGCGGTAAAGTTCGACGGCGCGAGTAACGTGCGGCCCCTGCCCG
AATACGACATCCGCGCCGGAATCGACGGCAAGCCGCGCAAACTCAACGACGTTGCCCCTG
TTTTCCCCATAGAAGATTTCGGTATCGAACGGCAGGTGTTCCGCCTGTTTCCCTTCCGCG
CCGCCGTGGAACATCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 936>:

gnm_936

CGAAAATGAAACGGGTAAAACACAAATAAGGCCTGTATGCAGGCAAGGTTTATTTGTGTT
TGACCCGGAAACGGGTTCAGACGGCACGAACCGGGATGCCGTGCCGTCTGAAAGGGGTTT
ATCGGGTGGCGCGGTAATCTGCGTCGGCTTTTTCAAAGCGTTCTTGGGTTTCGCGCGAAG
GTTCTTTGTTGAACAGGGAAACCAACACGGCAACGATCAAGCAAACAATAAAGCCCGGCA
CGATTTCGTACATCGTCAACAAGCCGCTTTCTCCTGCCGCTTGAGCCGGTTTTTTCACCC
ATTCCGCCCATACGACTACGGTTAACGCACCTGCAACCATACCCGACAACGCGCCGTAGG
CAGTGATGCGTTTCCACAATACGGACAGAATCACAATCGGGCCGAATGCCGCGCCGAAAC
CTGCCCACGCGTAAGACACCAGTCCCAATACTTTGCTGTTCGGATCGGAAGCaTCAGGAT
GGAAATCACGGCAATCGCCAAGACCATCAGGCGGCCGACCCATACCAATTCCGACTGATG
CGCGTTAATACGCAAAAAGTCTTTGTAGAAGTCTTCGGTAATCGCGCTGGAGCAAACCAA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 937>:

gnm_937

GCTTGCCGCCTATTTTTCTACGCGCAATTTCGACGATTATATTTTGGGCGGGCGCAGCCT
AGGCCCGTTTGTTACCGCGATGTCGGCAGGCGCGTCCGATATGTCCGGCTGGCTTTTGAT
GGGTCTGCCGGGCGCGATTTATTTGAGCGGTTTGAATGAGGCTTGGATTGCCATCGGCCT
CTTGGTCGGCGCGTATTTCAACTGGCTTTTGGTGGCGGGCCGTCTGCGCGTACATACCGA
ATACGCCAACAACGCGCTGACGCTGCCGGATTATTTCTTCCACCGCTTTGGCGCGGGCGG
ACACTTGATGAAAGTGGTTTCCGCACTGATTATCCTGTTTTTCTTCACGATTTATTGCGC
CTCGGGCATTGTGGCGGGCGCAACCCTGTTCCAAAGCCTGTTTGAAGGTATGACTTACAA
TCAGGCAATGTGGCTGGGCGCGGGCGCGACCATCGCCTATACCTTCTTGGGCGGCTTTTT
GGCGGTAAGCTGGACGGATACGCTGCAGGCTTCnTtGATGATTTTCGCGCTGATTTTAAC
GCCTGTGATGGTCTATCTGGGCTTGGGCGGCGCGGAACAGATGTCTGCCGCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 938>:

GNMQE49TF gnm_938

CCTAAGGCACATGTCATTATCCCCATTCGATAGGTGAGGACACTGAGGTTCAGGGAGGGG
AGACATCTTGCTCCTGGACACCTCAGCTGGGGAGGAAGGCAGTGGCGATCATTCTTAGGA
ATCTCCGACCGCCATGGGCTCCTGCTCTGTGCACCCTCAGGAGCTTACGGTCTGGTTACA
AAAATGCCATCTGCCTATGCTGAATTCTAGGCTTATGAAGATCCAAGACATATTCCTGAA
AATCCATATTTTCATGCATTGTACTATCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 939>:

GNMQE84TF gnm_939

GAACATACCAATTCGAAAACATCAATAACTCAAAAAAGATTTCTTTTTATGATCAAGAAT
ATACCGAAGGTTACCTAGTTGGCTTCGCCCGAGGTTTAGGGGTTGCAAAAAGAAATGGGG
AGCAGCTGTTACAACAGCCAGTTTTGCGCCGTATTTACGGCAGGTGTTAATAAATTTCAT
GATATTTTCCTTCAAAAAGTGTTTGGCGGTAATGGATGGAGCGTTTTTCAGACGACCGCC
GAACATCCGAAAATCAGTCTTTCAAAAATCCGAATACGACAAATTCGTATTGGTTGCCGA
TTTCTTCCAAACCTGCGTTAATCGCTTCTTCGAAGTCGTAGAAATAATCGGCATTGGTGA
TTAATTTGGTATGTCCGATGTCGCCCGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 940>:

GNMQF69TR gnm_940

CAGCATCATCGACAATAATGCTACAAGTGTGCAGGGTTTCGTTTTGTGCGGCGGTTTGGG
GCATTGCATTCATGGTCATTTTCCTGATTCTGTCGTGTGTTGCCGAATCGGGCGACCTGT
GTGAAGGTAACAAAAAAGCCGCCCCGTTTTCGAGCGGCCTGTTTTGCGTATGGGATGGAT
TTCAAGCAAGCGCAAAAAAGTACCGCACGTCTGTGTGGTACCAATAGCAATAAGCGGTTG
TAAATTTTTTGCCTTGCATGATGAAATGCCGTCTGAAGATAAAAATATTGGGGAGATTCT
AAATCAAAACGCTGCCGCGCCTCAAGCATTTTATCGAAATTTTTTTGATTTTTCATCTAT
CCGATTGAAAATATTTCGGTTTATTTTTACCGCTGCCCGATATTGTCGGCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 941>:

GNMQH20TR gnm_941

CGGATTCCCGCCTGCGCGGGAATGACGAnCTCTTCCGCATCTGATTTTGGACCTCTTGAC
GCGATTTGCTGCATTTTGAAGTGTCCACCAAGATAATCATAGTAAAAAAATCGTCCATCA
GCTGTTGGCTGATGTTGAGAATATTGATTTGGTTTTCCGCCAAAATTTTGGAAACATCGT
ACACGATGCCGACGCGGTCTTTACCGATGACGGTGATGACTGAATTGTTCACAGGCTTAC
TCCTTGCAGATATCCGTTAAAGTCCGAAATTATACCACCGTTGGATTTTGAAGAAATATT
GTCAACAATATATACATACAAAATGCCGTCTGAAACTATTTCAGACAGCATCAAGATTCA
GGGTTCGATTAAATAACCATCCTTATCCCACTGGGTTTTCCTGACCAACTTGTCATCCTG
ATAAACAGCTTCGCTCTTTTTAGAACCATCTTCATACCACTCCAAAACCACCCCGTTGCG
TTGATGGTGGCGGATAGACAGTTCCGAGAGTAATCGGCCGCTTTCATCCCAAGTCAGAAT
TTTGGCAGGCTCATCGTTGACCATAACCATTTCCGTCTTGATACTGCCGTCGGCATACCA
TTGCTTTCATACGCCGTTTGCCTTATTTTGCTTAAACTGGATTTCGCTTTCCTTGCCGCC
GTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 942>:

GNMQL93TF gnm_942

CCTACAAACCCGGCCGCCATTCACTCGCAGACTTGGCTAAGTCGGATATTGAAAATCGAC
AGCCGAATTTCACAGGGCCGCGTGGGACGAAGGTTTGAAAGGCTATGCCCGCCTGCGCTT
CATCGTCAACGCCTTCACGCGGATGCGCGCCCTGACCTTTAAAAACGAACTGGATTTCGA
CTACAAATCCACAGTGAAGAAAAATGCCGCCTTACCTGCGCCCGTGGTTCAAAGCCCCCG
ACCGGCAAAACCTCGACCGCACCATCATCTTCGGACACTGGTCCTCGCTGGGCTACACGA

ATGCCGACAACGTCATCTCGCTGGACACCGGCGCGCGGCAAATGCTTCCGAAACAGCTGT
TAAAAATAATGCATTAGATATTATTTGGATATTGGCAACCTCGTATGGGACGGCGGTAA
ATGGATTTACGCCAAATCTATTGGCGATAAGCAGATGGCTCGAGAAGCGGCGATTGATTT
TGGTGTGGATGCCGCCGCAGCTGCCGTTCCCTTTGTTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 943>:

gnm_943

AGCGGGAAGGTTTAAATAGTTAGGACGCCGGTCCAGAAGTAGTTACTACCCAAAGAAAGT
GCAACAGTCTATCGGCTGAGCTGCTTCGTGTGGAAGACGCAATGGGGTCTAAACTCACAA
TTGAAGTCGTGGACGTTGGCCCATTGGTACGGCAGGGGAGTGCCTCGCAGGTCGACGAAG
GCGTACCGCAAAGCGCGTCGGAGGCACTAGAAGCGTGAACGCCGATACGAGCAGTGACAA
AGTGGGCGAAAAGTTTGTCTGTTGAAAGTTTAAGGCCCTTCGTGTAATGCCTACTGGTGC
AkGGCGAGCTGGTTTTCAAGGTGAGGTAGAAACGTGCAGCTGACGGGAAATAGGCCAACA
CCTTCGCATCCGACCTAAACGTGACGCGGGGATGGAGAAGGCCAGGCCGGTAAGTCGCCG
GAACAGTCCGCCCAAGTTGGCAGGCGGAAGATCCAGGTAAACTTGGGCTCCTCCAATATT
GAGAAGCGATGATGAGCGCTCATGGATATGAAGTAATTGACATTATGTCCTTAGGAAAAG
TTATCAAGTCCTAGCCCGAACTGAATTGCATTGTArATTGATATAGGCGGGTAGGACGAG
AACCTCAAGGTGTCCGAGAGAATCTAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 944>:

GNMQM32TR gnm_944

CTATCCGAACCGCTGCCGCCCTCCAAGTAATCATTACCGGCACCGCCGATCAGAGTGTCG
TTACCGTCTTCGCCGGCTGATGTGTACCAAACCGTCTTTGCCCGGCATCACGCTGACAAT
CGCGCCGACATTGTTATCGAGGATTTTCACCACAGTGCCTTCGTACACTTTGCCCACTTC
CACTTCGGCAGTAATCTGCTCGATGCGTTTTTTCGCCGCATCGCCGGCTTCTTGAGTGGT
TGCGGCAATGGTAATCGTACCGTCTTCGGCAATATTGATTTCCGTACCGGTTTCAGCGGT
AATCGAACGGATGGTTTCACCGCCCTTACCGATAACTTCGCGGATTTTGTCTTGGTTGAT
TTTCATCGTGAACAAGCGTGGCGCGTGTGCGGACAGCTCTTGCGGGCCCGCAACGGCGGC
TTTCATCTGATCCAAGATGTGCAGACGCGCTTCTTTGGCCTGTGCCAAAGCGATTTGCAT
AATTTCTTTGGTAATGCCTTGGATTTTGATGTCCATTTGCAGCGCGGTAACGCCTTCGGT
CGTACCGGCCAGTTTAAAGTCCATATCGCCCAAGTGGTCTTCGTCGCCCAAAATGTCAGT
CAGGACGGCAAATTTGTTGCCTTCCAnAATCAGACCCATCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 945>:

GNMQN35R gnm_945

GCCTCGCCTTGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTG
TTAATCCACTATAAAAGAGGGCGTCTGAAAAACATTTTTCAGACGGGCTTGTTTATTCAA
TCAAATTAGTCTTTCAACTTTGGCAACTGATTTTAAACTTTTGCCATTTTGCCTTCCAAT
TCCGCCAAATCGGGTTTGCCTTTTTCCCCCAAATTCCCAGGGGGTTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 946>:

GNMQN72TR gnm_946

AAACGTCCTACACATCCTTTTAGTGCAATTTCGCTTAAATTTGTTAAACTTGGTAGGGCC

CTTATCTTCGAAAAATTACCTCTTGTTAATATGTTGTGTATTGTTGTGTTTCGACTGAAA
TTGCGCCTTAGTAACAAAAAATTGTTCCTTGTTAAATGGCTGGGTGTGTTCCGTGTTAAG
GCGTGGACGTAGTCCAGGTTGCTCGAAAAGCTGGCTAGTGTGACCCGTGGTCTAAATTGT
AAACTGTTCCGTAATAAACGCCCACTGTTGCCCCTGACACAGGGTGGGCCGGATATGACG
ACGCTTTACCCTTTCCTAGATGGTACACTGGCGCTGAATTATGAATTGCGCGTAAACCTG
ATTTGTGTGTTTAAACTTGTTGTACCCCCTTGTGTTGCCCTAAGGGTGGGTGGGTCGACG
CTGGACGTGTGTATAAATGTACTGGGGTGCCTGAGTGTGATGGCCATGGGAATTGTGTTG
TCGTTTGCTnTTAAACTTTATATGTGTTTGCCCCTGGGTAGGTGTGTTAACATGGTCCTG
ATTAAACGCCTGGCCCTGGGGTGTGGAACTAGTATGTCTGGACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 947>:

GNMQO54TRB gnm_947

GGGTGCATGCTTAAGAAAATTATTGTTACTAGTGTGATTAAGATTAGGTCGAACCCGCTG
ACGGGGGTGATCCGTGAGGTGCCGTTTAGCCGTAGGGTCCCAAAACAGGTGAGTTAAGAC
GTGTTGGCAGTAAGATTGGACAGGACGAGGAACGCTTAGCCGTGTTTTGCAAAGTTGCCT
ATATTTCGTTACCCGTTGGCGCAGGCCAAAAATAACAATAAAGTGGTAAGGACGATTAAG
GCGTGGACAAAGGCGGTGAAACTGGAACTCACATTTCGCAAATTTACCCCGGTGAAAACA
GTGGCTAACGAGGTGAAGTTCGTTGACGTTAACGTTTAAAATAGTTACGTGCCGTCGTTT
ACGCCCCTCTTCCGGACCGCGAATAACACGAATGGCACCCCCGCCGTCGTGCTAAAAACC
CTATCGTGGGCCCGGCGTGGACAATGCCACAACACGTTCGACACCACCCCTAACTTATTC
GCCCGCTGTTCGACGTCCCTAGATGGTACGCTTTCTTCTACCCTCAAAGGAAAGCTACGA
GTCCTAAAATTGACGTTGAAACTGTTAAACTTCTTATTACGTGTTTGACCGGTGAAACCC
GTTGTTAAGTCCGGCTCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 948>:

GNMQP31TR gnm_948

GCTGTAAATGTTCAAACACTACGCCGTCCACGATTTTGCCGAGTTTTTGGAGCTGTACGG
CATGCCCATCCGTATCGGCAAATACGGCGCGGGCGCAACCAAAGAGGAAAAAAACACCCT
GCTTCGAGCGGTGGCGGAAATCGGTGCGCGGGCGTGGGCGGTCAGGCTTTCGCCGTGTGC
CAGCACGCTGGCGGTTTCGCCTAATTTTTGCGCGCCCTGTTCCGAAACCTGAATCAGGCT
GGAGCGTTTTTGGAAATCATATGTCCCCAAAGGCGAGGAAAAGCGGGCGGTTCGGCTGGT
GGGCAACACATGGTTTGGACCGGCGCAGTAGTCGCCGAGGCTTTCGCCGGTGTAGCGTCC
CATGAAAATCGCACCGGCGTGGCGGATTTTTTTCGCCCATTCCTGCGGGTTTTCGACTGA
CAGTTCCAAGTGTTCGGGGGAAATGTAGTTGGCGATTTCGCAAGCTTCGTCCAAGTCTTT
GGCGAGTATCATCGCGCCCCTGTTGCCGAGCGAGGCTTCGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 949>:

GNMQP64TR gnm_949

ACAAGAAGCTGGTAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG
CTGCATGAATTGGCACGAGCTCGTGCCGAATTCGGCACGAGCGACTGCATTGGGAAGATC
AGTTTTCCTGCCATCCAGGCTGCTCCCTCCTTCAGCAACTCATTCCCACAGATCTTCCGA
GACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCAGGATCCTTACTTTAGA
ATGACAAGGGACGTCGCCCCCAGGATCGGCTATCCTAAACCAGCCCTGTTGCACTCCACC
TTCATCCCAGCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 950>:

GNMQP64TF gnm_950

TGGGTACCCGGCCCCCCCTCGAAGAAGAAGGTCAGGTACATGAAAGACACGTCCACATCA
CAGTTGCCCCCAAACTGCCTGTGCTCCTCGATGGTGTCTCTCCCTCCAGAAAACGCATGC
TTATTGACCTTGGTTTTGATCTGCTTGGCCGTGTCGGTGAGGAAGATGGCGGAGTTGGGG
TCGCTGGGACTCATTTTGGTCTGGGCGACCTGCATGGCTGGGAAGAAGGTGGAGTGCAAC
ACGGCTGGTTTACGATACCCGATCCTGTGGGCGACGTCGCTTGTCATTCTAAAGTTAAGA
TCCTGGTCAATGGCACATGGGATAAGGCACTGGATATCCGTCCTGTCTCGGAAGATCTGT
GGGAATAGATTGCTGAATGATGGAGCATCCTGTATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 951>:

GNMQR24R gnm_951

CTTGCCCGCAAAAACGTGGCGTGTGCACCCGTGTATACACAACTACCCCGTAAAAAACCT
AGTGAGTTAGCATCATATTGCTGCCATTTTTCACGGTCTTTCCCTAAATAAGCAGTAAAG
GCTTTTTCTCCCCACGGCACGAGGCTTGGCGATAAAATAGGCGAAAAGGCAGAAACACTT
TGATAACGTTCCTGATTCCGCAGCGCCAATACCAATGCGCCGTGTCCGCCCATTGAATGT
CCCATAATGGAACGTTTGCCGTTGGTAGGAAAGTGTTTCTCAATCAGACGGGGTAGCTCG
TTCAAAATGTAATCATACATTTGATAATTCGCCGCCCAAGGCTGTTCGGTCGCATTCAAA
TAAAAGCCTGCACTCTGTCCTAAATCGTAAGCATCATCGTTCGGCACTTGCTCTCCGCGA
GGGCTCGTATCCGGGGCCATCACAATTACTTGATGTTCTGCCGCATAACGCTGAAAGCTG
ACTTGGTAATGCAATTTTGTTCCGTACACGTCAAGCCGGAAAGCCAATAAATCACACCAA
GCGGTCGATTTTCTGGATTATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 952>:

gnm_952

GGCTGAAAATCATGCAGGACGGGTAATCGGCGGCTTTGACGGCTTCTGCCCAAGCCACCA
AGGATTCATCGGTGTCGCACAGCCGCCATACGTCCATATTCGGAATCAGGCGCAGGGTAG
CGGTTTGCTCAATCGGTTGATGGGTCGGGCCGTCTTCGCCCAAACCGATGGAATCGTGGG
TAAACACAAATACAGGGTTGATTTTCATCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 953>:

GNMQU51TRB gnm_953

CTGTGGTGTGGGTGGGACGTTCGTTCCCCTTGGACCCAGAGGCAAATGACCCTGTTATCT
TGTTTCCCGTCCCTGGTATCCGTTTATTAGATAAACGTGGGTAGTATGCTTTTGCAGTCC
CCGTGCCTGTCCCCGGTCCTGTTTGGACGGGACCCGACGTGCCGTGGGGAACCGACGGGG
TTGGGGATGAGGATGCCGGTGTGTAGGCCGTTGAAGTGCCTTTACCTGCTGGTGGTGATC
CCGTATAGGCAGCCTAATGTGGTCCCGGATGTGTTGAAGTTGTTTTAGCAGGTCCCGGGC
GCCCTGTTGCGGTCCCTGTTGATGAAGACGATGGATGTGCTGGGTGATCGTCCTAGTAGT
GGGAATAGGGTGTGGGCTAGTTTTACAGGCGTGATGGCGCCGACGTGGCACCGGCCGATT
TACCTGGTGATGGCCCGGAAACTTAGTGGTGAGAGGGTGCAAAAACAGTTGGTGTAGCGG
ATGACGTTGCTTAGCCCGTTCCGTGCGGTCCTGGTAACGGCGGTGGTGAAACGCCTAAAC
CTCCCCCTCCTTGTGTCAACAAGGCTAAAGTAGACGGTGAACGGCCTGGGGCACTTGGTC

CTGATAACTGTGCTACATATCCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 954>:

GNMQU68TRB gnm_954

TTTGATAAGGAACCCTGTCATTCCAGGATTGCCACAGCCATGGTTGTTGCCCATCGGGGT
CCTGACTTGACGTCTCTATACTCCTAACCAATTCCTTAGTATTGGTAGGTGCTATATTT
CACATGCTTATCCCTGCGCCAGTAGAGCGTCGCGCCCCCAACAAATAGCTGTAGTTATTC
ACCTCTCGTGATTTCTTGGGGTCCATGGAGTAAGCTTCCAATTCCAGAGGGTACATTCCT
CTTTGAAGCCATGGCACTAACCCGTTGAGCCTTCCTCTTCGAGCCTCTCTAAGTGTTCCA
GAACCTCTACTTCGTTTATTCGCGCTGGCCCGTGGCATGGCCTGACCTAAATCGAAGTCC
AGCGGTCCCCTTCGGAAGTGCGGCACTGGCCGTCCTGCGCTTGCAGATATCTGCTGCTAT
CCTCTGGCGCCAAGAAGATTTGGACCCGTTCAAGCTCCTTATTCATTGGTCCAAATAAGT
CACCTTAATAGTCCGTTAATTCAATTCCTCTTGCTTTTATACTGTACCCGAACTAAGCAT
AGGAACACCAATTCGCCCTTACTGATCATGTACCCTCGTTCTGTTCCAGGGGTTGATCTA
TTTCATGTTGACGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 955>:

GNMQU88TRB gnm_955

CGTGTGTTGCTGGCTTGACCTCGTTGGAATATAAGTTGTACCATTCGACGGGTGCAGGTA
TGTTGGAAGATTCTGCGCATGGTGCGGTATATGGTACTGACACGCCTGATCGTGCGACGT
TTATTTGTAACGTATGTAATGGTCGGTCGCCCATTTGCCCTGGTGACCCGAAAACTAAAA
ATGTTAAATATAAGTCTGATAAGTGCTTGACAGATGAAAGTCGTATTCGTCATGTTCGTT
AAAATCCTAGTTGTGTTCATTCGTATTACTCGTATTGTATTGGTGAAACTCCGGGTGTAT
AGCCGAATATTACTTATAACTCGTACCCTCATTAAGCTACCACGGTGGAAACGTGTGAAG
TTGCTGAATAAGGTAAACCCGTTGATCGGTAGGTGTGACCTTATGAAAATTGTGTATGTG
GTATAGATCGACCTTTCGTAACGTTGCTCGAAGTTGTCCTAGATGGTACCCCGTTGTCCC
ATTTCATTTGTATCACCCCCTAGAAATTGACTACGTCCTTACCTCCCTTAGAATTTCTTT
CCCTTCACATGTAATAAAATTGCATTGTTGCCCCGTCGCCGAATTCTGGTATGTTTGATG
TGTTGATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 956>:

GNMQX55TF gnm_956

AGGATCCCCACGAACACAAAATGACCGTACAGACCAAGACAAAAGGTTTGGCGTGGCAAG
AAAAACCGCTATCCGACAACGAACGTCTGAAAACCGAAAGCAATTTTTTACGCGGCACGA
TTTTGGACGATTTGAAAGACCCGCTCACGGGCGGCTTCAAAGGCGACAACTTCCAACTCA
TCCGCTTCCACGGTATGTATGAGCAGGACGACCGCGACATCCGCGCCGAACGCGCCGAGG
CAAAACTCGAGCCCTTGAAATTTATGCTTTTGCGCTGCCGGCTGCCGGGCGGGATCATCA
AACCGTCCCAATGGATAGAACTGGACAAATTTGCCCGGGAAAACAGTCATTACCGCTCCA
TCCGGCTGACCAACCGGCAAACCTTCCAATTTCACGGGGTGCCGAAAGCCAAGTTGCAGA
CGATGCAACGCCTCCTGCACAAACTGGGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 957>:

GNMQY03TR gnm_957

CCTACTCTCCCTAAGCAACGAGATGAAACAGCGTATCGACTCCCTGCCGGTTGAATTTTC
CGAAAAAACGCGACGTAACCAGCATCAACATATATAAGAACAGCACAACTAGCATCAATA
CATCAGGCAACGAAAATGCAGAATAATGCACTTAATGGTGTTTGGATATCTGTTGTTTTG
TGCTGTTAGTAATTCATCTTTCTGTGTTTACAGTTTAGCAGTTGTACAGTTTTATAGTAA
TGTTTAAACAATGACTGATTTATTTTAAATGCAGATATTGTCGAGGATAAACATGGCCAA
AGCCCTTTCAGTAACATTTCTGATTTTTTAGCGAGCCTTCTCATTTCCCCAGCGAGATCG
GTACTGGTACCTGTACTTTGGCCGCCGATATGCTTAAGTTCAGTAACCTTAGCGCGCAAA
TCCAGTAACCTTACGTTACGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 958>:

GNMRB37TF gnm_958

CACCAACCTATGTGTCGTCCTGATCTGGGAGGAGTTGTCCCTCCCAAACAAATCTGATTC
TACCGCCCCGAAGAGCGGGGTTTCAACCGACAAGGAAGATTGATGAACAATATGTTTGCC
GCAAAAATTGTCCAAACTGGTTTATACCGCTTCCGACCATCCTGATTCCCTGTCGGAGATG
GAGGAGTTTGACCGCCTGATTCTGCTGATACGCAAACTGTATCAAATATTGGACGGGCAA
CATATCCTCTCCAGAGTAACGGTTTGCCTTCACCACCAAAACCGGCGCGACCTGATTGCC
TTGGATAAAGCGGCTGCCGGTTGCGATTCGGCAATGTTGCGCGCCCAACGTTGGCTCGGA
CGACATGGTCGCCGCCATAAATTCGGCGGGGTAGTGCGCTTTAAGCCATGCGGTCTGGTA
GGAAATCAGGGCGTAnGCGGCGGCGTGGGATTTGTTGAAACCGTAGCCGGCGAATTTTTC
CATGTAGTTGAAGATTTCGTCGGATTTTTCGCGCGAAATGCCTTGTTTTGCCGCGCCTTC
GGCGAAGATTTCGCGGTGTTTCACCATTTCTTCGGGTTTTTTCTTACCCATGGCGCGACG
CAGCAGGTCCGCGCCCGCCGAACGAGTAACCGCCGGATAATTTGCGCCGCCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 959>:

GNMRF35TRB gnm_959

TATCGCATTGTAAAATAGTAAACAAAGTAAAGTTTGGGCGGTGGAACCGGCAGATGTGTC
AGTCCTAGGCGTCAGCACTTCTATGGGCGCGGAAGCCTGAGCTCCTCTTTGGGTATTAAA
CTAAACGTCCCGTCCCACCCTAACACCCAGACCGTTTGGGCGGTGGAACCGGCAGATGTG
TTAGTCCTAGGCGTCGGCACTTCTACGGGCGCGGAAGCCTGAGCTCCTCTTTGGGTATTA
AACAACAAACCACTTTGACCGGGACAACCCTTGTTACCAGAGAGGCGGACGAGCGGCCCA
AGCTGTATGTTCGGAAAGTGCGCACATGCGAACAGTGCACTGAGGGCCTGAACTTTCCTT
CTCTCGTTAAACATAAACTTTAAATCCCCATGGCCCGGGACCCCCCACCACCTAAATAAC
AACCCTACCGGGAAAATTTGCCACCGCTCACAACTGCTACTAATTGTCCATAATCACTTG
CCATTGCCCCCCGCGGCACGCCCCGTGGCACGCCCCATTTCTCCTTCTAGTTCGCAAGGA
TCTAAAAGGTGCACCTTCCTAAATGGTACCGCCTGATACGTCGTTGGGAAGTTGAATTTG
ACATTGAAATGTGATGGGGTGACACATTGTCGGAAAAACGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 960>:

GNMRH76TR gnm_960

CATGTTGGTGTTCTCATTCAGCCCTTTCTCCCAAGAATGGTAAGGACGACAGGCAACGGA
CGGTAAACGAAGAGCTTGAAGAGTTCGTTCAACTCAATCGAATCCGCCCCCGTTTTCAAC
ACCCAACCCTGTCTGCCGGAATAGATGTAGCCGTGCCGCGCCAGCTTTTCCAAAAGCTCG
CCCAACTCGTCGTAGCCCATATTGATATGCCGTCTGAACTCCTGAACAGGCAAGGCTTTG
CCTTCTTTTTGCGCCGCATCCAGAAGCAGCAGGATTTTCAACACGTCGTCAAACCGTCCG
CGCGAGTCGAAGCCCCTGCGGAACGCTTCTCCCTGCCAGTAGGAGAGTGAAGAAGTCAGC

CGCGAGTCGAAGCCCCTGCGGAACGCTTCTCCCTGCCAGTAGGAGAGTGAAGAAGTCAGC
ACCGCGCCGCCCAAGACCAGCGTCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 961>:

GNMRI44TR gnm_961

TAAGGCAAAAACAAGCGTTTTCGTCATTTTGAGGCGTGTGGATTATTCCTTAGGTATTTT
CGGGCCGGAGACCAACGAGGTGGCGGGTGTCGTCGGTACGTCCGGAGACCAAAATAACTT
TGCCAGGGATGTTGGTTTCGGCGGTCAAAAAAAGTAGCGTCTTAATGTTTTCCATTTAAA
CAAATGTCGGTGAGGATGCGGTTGTTTAAAACGATTTGCATGGCGTTGTGCAGTTGCAGC
AGGTAAACGGTCGGGGCGGCGAGTCCGATGAGGACGCGTTCGGCGGTGGGGTGGATGCGG
AAGCGGTGCATCAGTGCGTTGTTGTTTTGGAGCCGGCCGTTCATTTTCCAGTTGCCGATG
ACCCATTTTTGATCCCACATTCCGATTTGGCGATACATCTTTTTTGCTCCGTGTCGTGTT
TTTTTGTCTGCCGCGTGTGGCGCGGTGCAACGTGAAGTTTAGTGGATATGCGGCGGGTTC
GCAACTTGAAGCGGCCGGCCGGGCGGTTTGGAATGTTGTTTCGGGCAGGCTGTTTTATAA
TGGCCGCCTGATATGTATGCAACTATAGGAGATGTGATGCACGCGCTTCATTTTTCGGCT
TCGGACAAGGCCGCGCTTTATCGGGAGGTGTTGCCGCAGATTGAGTCTGTGGTGGCTGA